AP-55

DISC PRINTER LOADER SYSTEM

User Manual

Rev_1.05

TEAC

D009854-00E

1 IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a bookcase or similar unit.
- The apparatus draws nominal non-operating power from the AC outlet with its POWER switch in the off position.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.
Model number _____
Serial number _____

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

1 IMPORTANT SAFETY INSTRUCTIONS

For U.S.A

TO THE USER
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION
Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.

For the consumers in Europe
WARNING
This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Pour les utilisateurs en Europe
AVERTISSEMENT
Il s'agit d'un produit de Classe A. Dans un environnement domestique, cet appareil peut provoquer des interférences radio, dans ce cas l'utilisateur peut être amené à prendre des mesures appropriées.

Für Kunden in Europa
Warnung
Dies is eine Einrichtung, welche die Funk-Entstörung nach Klasse A besitzt. Diese Einrichtung kann im Wohnbereich Funkstörungen versursachen ; in diesem Fall kann vom Betrieber verlang werden, angemessene Maßnahmen durchzuführen und dafür aufzukommen.

For Canada

Industry Canada's Compliance Statement:
This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

CAUTION

[Shut-off timing after printing]

Do not set the power switch on the label printer P-55 installed in the AP-55 to the OFF position during execution of a print job or **within 10 seconds after a print job is complete**. Failure to follow this instruction may prevent the thermal print head from moving back in place. With the thermal print head not in place, you are unable to remove the ribbon cartridges from the printer; if you try too hard to remove them with such a condition, the P-55 may be damaged.

Make sure that you first switch the P-55 to standby and the system shutdown process is complete before setting the power switch to the OFF position.

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3 Introduction

Thank you for purchasing the TEAC AP-55.

This manual explains how to install the AP-55, connect it to your computer and TEAC label printers ("the P-55") and operate it. Please read through this manual before using the AP-55 to take a maximum advantage of its capabilities.
You also need to read the manuals of your computer and the P-55.

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3-1 Definition of terms

This document uses the following terms with the following meanings.

AP-55	Auto-loader unit
AP-55 software	AP55 Multi.exe (AP-55 matching software)
	AP55.exe (AP-55 control software)
AP-55 system	Auto-loader unit(s), P-55 printer(s), and AP-55 matching and control software

3-2 Features of AP-55

- Auto batch processing of up to 300 CDs/DVDs
  The AP-55 is an auto-loader unit designed to operate with one or two label printers (***Note1**) and the AP-55 software (***Note2**) to perform a series of operations including printing and auto-conveying (supplying/collecting) for up to 300 CDs/DVDs automatically without human intervention. (***Note3**)

  ***Note1** You need to install TEAC disc label printers P-55 in your AP-55 to use the AP-55 system.

  ***Note2** Specify the stacker mode setting in the AP-55 software. Depending on the user's application, you can select the most appropriate stacker mode. For detailed information, see the chapter **14 Details on AP-55 Stacker Mode** on **page 48**.

  -Stacker normal modes: "from Blank-UPPER to Printed-UPPER"
  "from Blank–LOWER to Printed-LOWER"
  Suitable for printing different images on up to 100 discs using the upper and lower printers separately or printing the same single image on up to 200 discs.

  -Stacker normal mode: "from Blank-Upper + Lower to Printed-Upper + Lower"
  Suitable for printing the same single image in bulk (on 300 or more discs). (Manual replacement of discs required)

  -Stacker optional mode: "300 Discs Mode"
  Suitable for printing the same single image on 201-300 discs without human intervention during operation.

  ***Note3** The AP-55 software can control four AP-55 units (eight P-55 units in total). If you want to control more than one AP-55 using one single computer, you need to install the software from the AP-55 Utility CD-ROM Ver.1.0.13 or later version that is included with the package.

  *Adjustments of "aspect ratio", "displacement", "hue shift between colors", and "tone differences" for the P-55 cannot be performed using the AP-55 software.
  *You need to perform these adjustments directly to the P-55 before installing the P-55 in the AP-55.

- Best suited for small scale production of a wide variety of products
  Equipped with two P-55 printers, the AP-55 allows you to handle different print jobs in parallel. (***Note4**)

  ***Note4** You need to install the label print software P-55 Utility Software Ver.2.0.0.10 or later version that comes with the P-55.
  If the version of P-55 Utility Software is older than Ver2.0.0.10, contact your local dealer/reseller.
  *Before installing the latest version, make sure that you remove older versions of the software from your computer.
  *For installation and removal procedures, read the P-55 instruction manual.
  *You must complete installation of Disc Label Editor on your computer before connecting the AP-55 and the P-55 to your computer.

3-3 Computer requirements

Operating System:	Windows XP, Windows Vista
Memory:	Windows XP: 256MB or more
	Windows Vista: 1GB or more
HDD:	100MB or more (Additional free space is required for saving image data)
USB port:	One or more open ports required

3 Introduction

3-4 Steps you have to follow for using the AP-55

The following briefly describes the preparatory steps for you to follow to connect the AP-55 to your computer and get it ready for use.

*** Details are explained on pages indicated in parentheses below.**

(p.7)	Open the package and check the AP-55 and included accessories.

↓

(p.9)	Identify the parts on the AP-55 and learn how they work.

↓

(p.13)	Place blank, unprinted media in stackers.

↓

(p.14)	Remove shipping protection materials such as tape, cushion, and metallic piece.

↓

NOTE
Make sure that Disc Label Editor included in the latest version (Ver.2.0.0.10 or later) of P-55 Utility Software is installed on your computer before you connect the AP-55 to your computer.

↓

(p.14)	Connect the AP-55 to the P-55 (two units) and your computer each using USB cables and insert the power cables into all those units. Plug in the AP-55, the P-55 and your computer.

↓

(p.20.)	Install media stackers in the stacker trays.

↓

Turn on the P-55, the AP-55, and your computer, in this order.

↓

(pp.22-24)	Install the AP-55 software and the AP-55 USB driver on your computer.

↓

(pp.26-39)	Create an image to be printed using Disc Label Editor and select the printer you want to use in the AP-55 software. *For detailed software operational information, click **Start**, point to **All Programs**, **TEAC(C)**, and click **Disc Label Editor Program Manual**.

↓

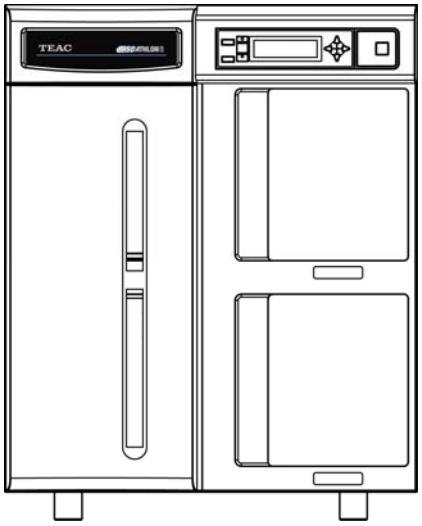
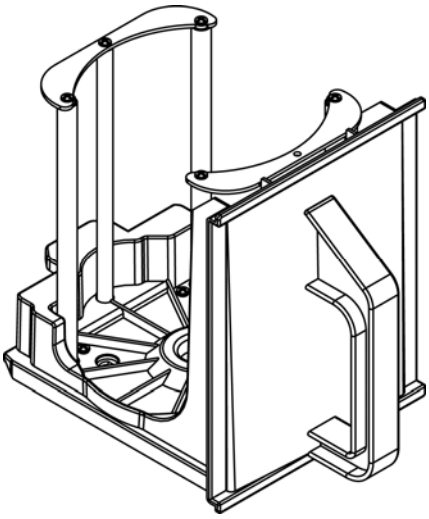
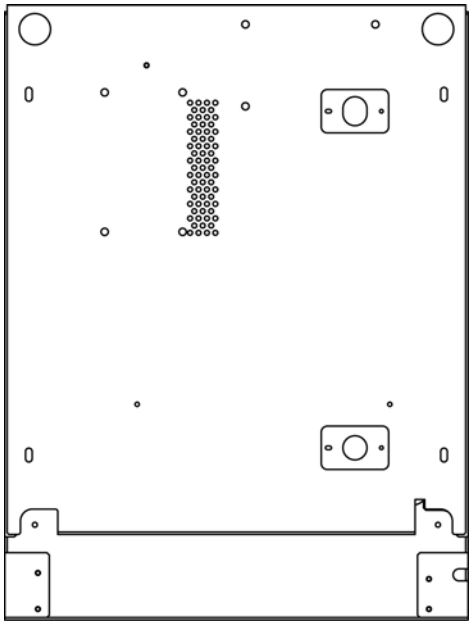
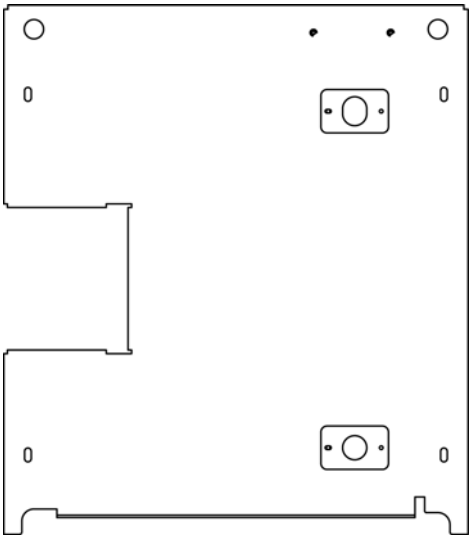
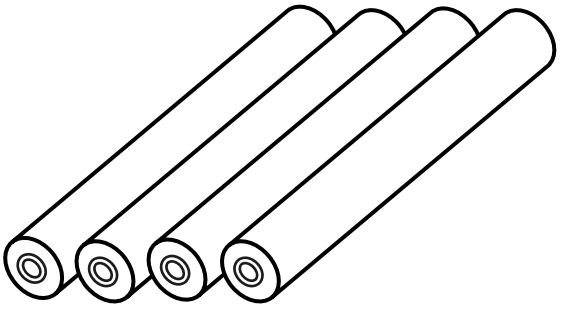
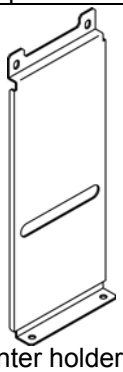
After you make sure that all settings are completed, start a print operation.

CAUTION	**Before using the AP-55, be sure to read this manual and follow the preparatory steps above to get all necessary settings done. Skipping any steps or not performing the steps in order may result in damage to the units you use or cause them to malfunction.**

4 Opening Package

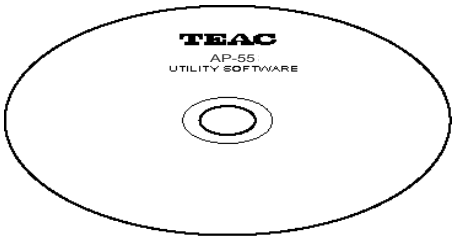
The package includes the following items. If you find that any items in the package are missing or damaged, please contact us for assistance immediately.

4-1 Lists of included items

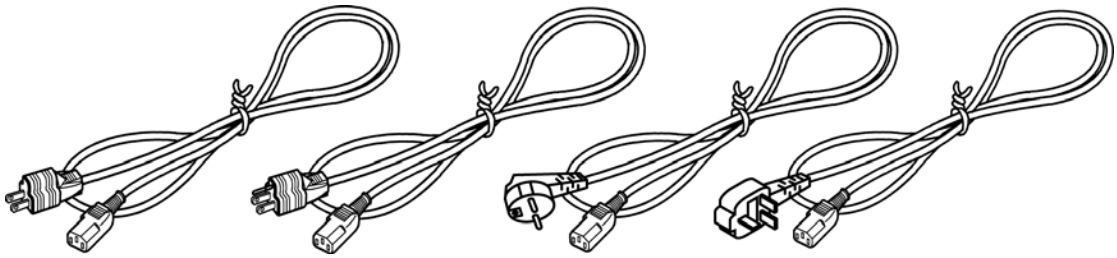
AP-55 accessories	
	
Auto-loader unit	Media stacker x 4
	
Lower base x 1	Upper base x 1
	
Base support x 4	Printer holder x 1

4 Opening Package

AP-55 accessories



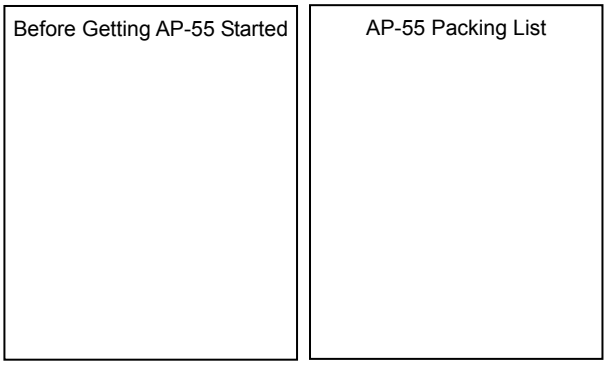
AP-55 Utility Software CD-ROM ×1



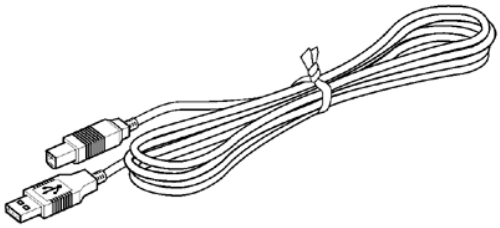
(For Japan x 1) (For U.S.A. & Canada x 1) (For Europe x 2)

Power cord set

* You must use the correct power cord set for the country or region in which you use the AP-55.
* The power cord set for Japan comes with a two- to three-prong adapter.



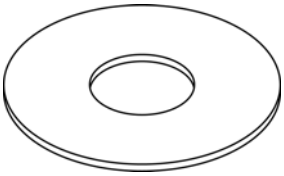
Slip x 1
Before Getting AP-55 Started,
AP-55 Packing List (reverse side)



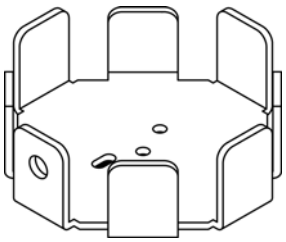
USB cable x 1

M4 x 16 (2 pcs for spares)
Truss head screw (for assembling main unit)

M3 x 4
Binding head screw (for holding printer)



- Jig, PLATE CENTERING A x 1

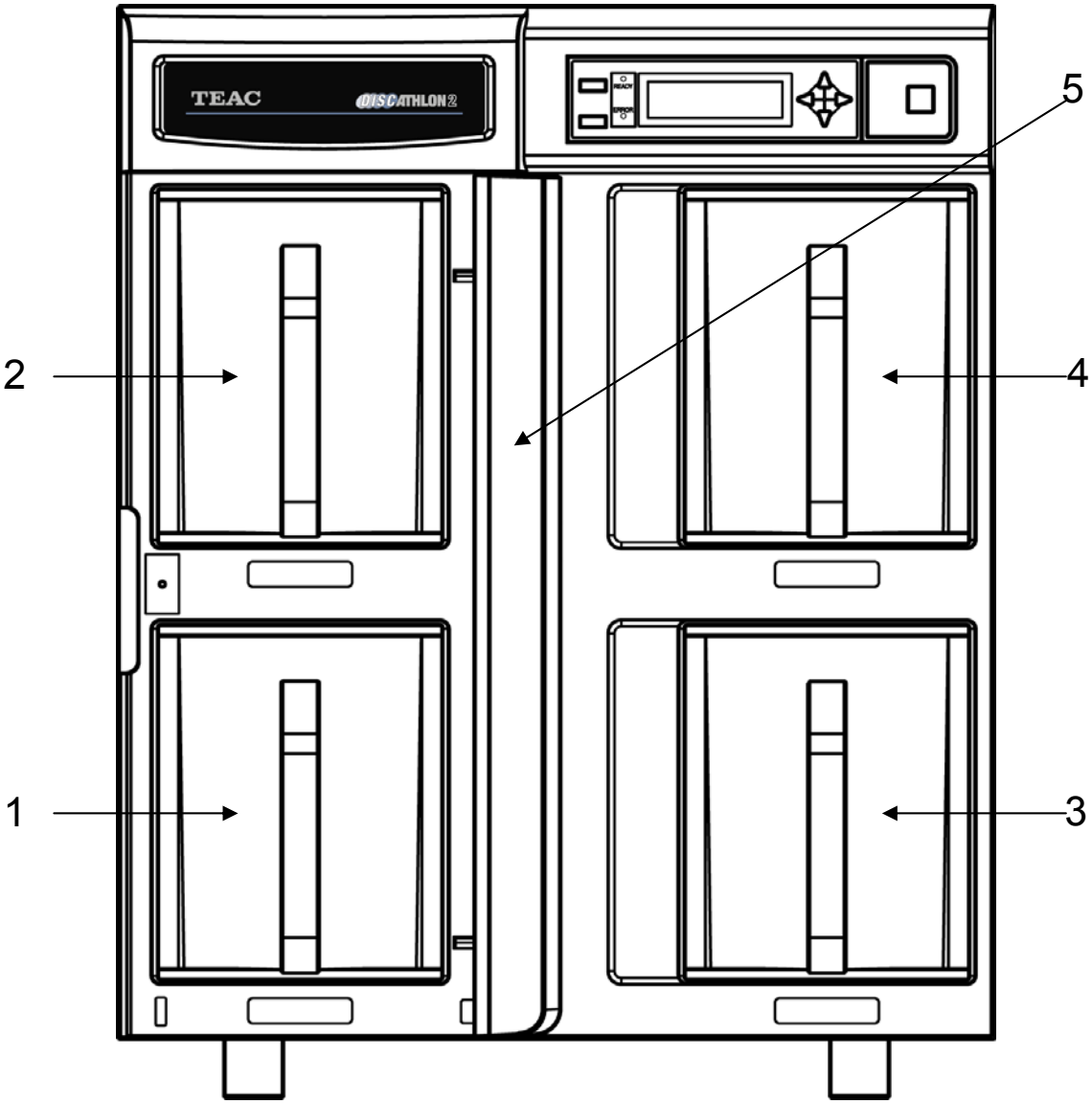


- Jig, BOX CENTERING B x 1

Loader centering jigs

5 Identifying Parts

5-1 Auto-loader unit (with front door open)



○ Stacker tray function in normal mode

No. (shown above)	Stacker tray function	Stacker tray name
1	Hold discs to be printed	(B.M.S 0: Blank media stacker tray)
2	Hold discs to be printed	(B.M.S 1: Blank media stacker tray)
3	Hold discs that have been printed	(P.M.S 0: Printed media stacker tray)
4	Hold discs that have been printed	(P.M.S 1: Printed media stacker tray)

○ Stacker tray function in optional mode

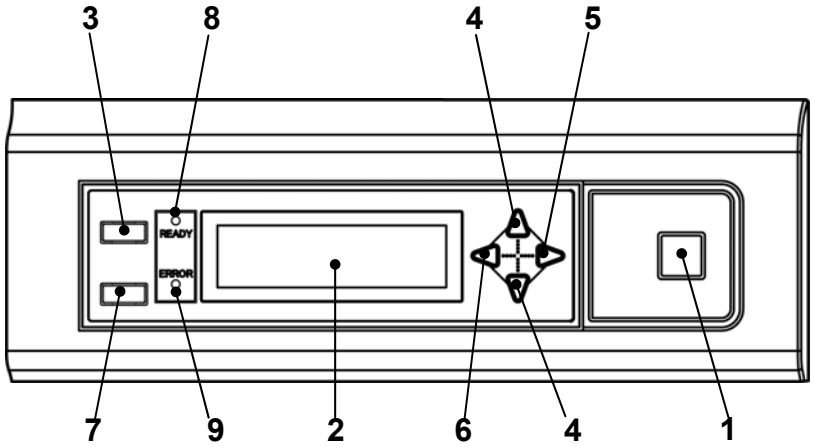
*The AP-55 system can be set to print 200-300 discs depending on the user's application
The optional mode allows the function of each stacker to change with the stacker state.

No. (shown above)	Stacker tray function	Stacker tray name
1	Hold discs to be printed	(B.M.S 0: Blank media stacker tray)
2	Hold both discs to be printed and discs that have been printed.	(B.M.S/ P.M.S 1: Blank/printed media stacker tray)
3	Hold both discs to be printed and discs that have been printed	(B.M.S /P.M.S 0: Blank/printed media stacker tray)
4	Hold discs that have been printed	(P.M.S 1: Printed media stacker tray)

5 Front Door

Be sure to close the front door when the AP-55 starts up or is in operation.

5-2 Front panel



1 STAND-BY/ON switch **[NOTE]**
Switches the unit between standby and on.

- To switch the unit on
  1) Press the " | " end of the main power switch on the rear panel.
  2) Press the STAND-BY/ON switch once. The READY lamp starts blinking to show that initialization has started.
     Upon completion of initialization, the READY lamp stops blinking and lights solid to indicate that the AP-55 is ready for use.
     (It takes a few minutes before the unit gets ready for operation.)
- To switch the unit back to standby.
  Press and hold down the STAND-BY/ON switch for 5 seconds or more and release your finger from the switch. The unit initiates shutdown and ultimately is switched to standby.

NOTE

Pressing the STAND-BY/ON switch on the AP-55 does not turn on the two label printers connected to the AP-55.
To turn on the printers, you must set the power switch on each printer to the ON position separately.

2 Display
Shows the unit status information, etc.

3 MENU Button
Not supported (For use in maintenance mode only)

4 Function Select Buttons
Not supported (For use in maintenance mode only)

5 Function Enable Button
Not supported (For use in maintenance mode only)

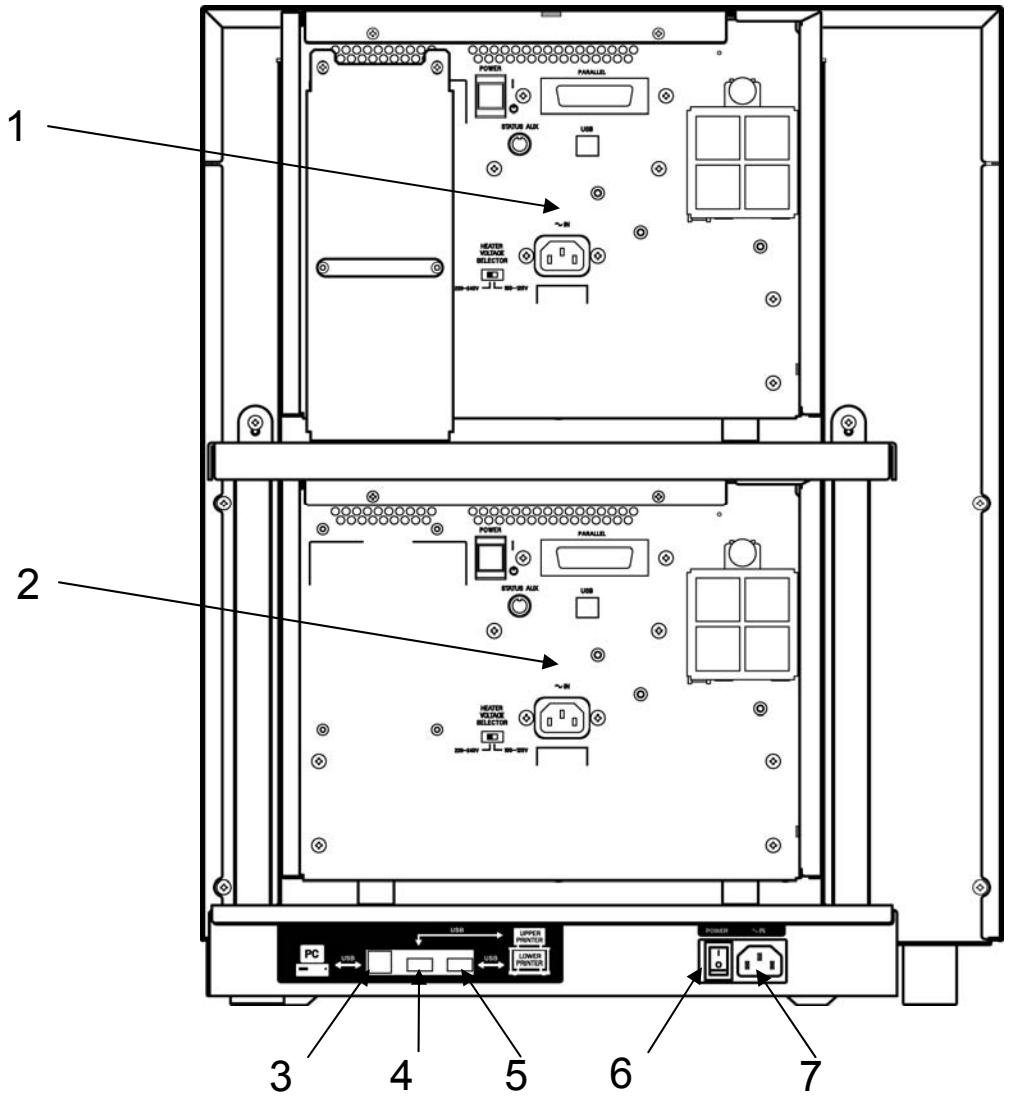
6 Cancel Button
Not supported (For use in maintenance mode only)

7 INK CHANGE Button
Not supported (For use in maintenance mode only)

8 READY Lamp
Lights solid to indicate that the unit is ready for operation and blinks during operation.

9 ERROR Lamp
Lights solid or blinks when error occurs.

5-3 Auto-loader unit (rear)



1 Label printer P-55 (upper printer (installed in the upper portion))

2 Label printer P-55 (lower printer (installed in the lower portion))

3 USB 2.0 connector (Type B: to be connected to your computer)

4 USB 2.0 connector (Type A: to be connected to the upper printer)

5 USB 2.0 connector (Type A: to be connected to the lower printer)

6 Main power switch for auto-loader unit (***Note1**)
Turns the main power to the auto-loader unit ON and OFF. To set the switch to the ON position, press the **"|"** end of the switch. To set the switch to the OFF position, press the **"O"** end.

7 Power connector
To supply AC power to the AP-55, plug in this connector included in the AP-55 package.

***Note1 Pressing the STAND-BY/ON switch on the AP-55 does not turn the installed printers on. To turn them on, you must set the power switch on each printer to the ON position separately.**

6 Installing AP-55 Unit

Read the following instructions and follow them when you install the AP-55 unit.

ATTENTION!

Installing the AP-55 requires on-site assembly and adjustment by our service personnel. Refer to Fig. 1 and Fig. 2 below and secure space for the AP-55 so that it can be installed properly.
Be aware that the AP-55 must be re-adjusted if you relocate it after having the service personnel install the unit. Contact your local dealer/reseller.

- Do not block the exhaust opening on the right side and the intake opening on the rear side of each P-55 unit with walls or other objects. Heat trapped inside the enclosure might result in serious injury to yourself or others as well as damage to the unit and degradation of print quality.
  - Leave enough space (10cm or more) between the exhaust opening on the right side and walls or other objects, and between the intake opening on the rear side of the printer and walls or other objects. (See **Fig. 1** and **Fig. 2**.below.)
  - Leave enough space (20cm or more) between the left side of the unit and walls or other objects to replace ink and transfer ribbons. (See **Fig. 1**. below.)
- Place the AP-55 on a stable, horizontal, and mechanical vibration and shock free surface that can reliably support the weight of the AP-55.
- To maintain consistent print quality, avoid places where temperatures sharply change because of the direct sunlight or nearby heating apparatuses.
- Avoid dusty places; otherwise, the print quality might deteriorate or the printer might suffer failures.
- Never install the AP-55 close to windows through which rain droplets can sneak in, which might cause malfunctioning.
- This is a high-precision product. Do not expose the unit to excessive physical shock. Handle with care.
- The AP-55 has been shipped with some internal parts held in place with a cushion and metallic pieces to prevent damage during shipment. **Be sure to refer to the section 8-1-1 Getting AP-55 ready after opening package** on **page 14** and remove all shipping materials before use.
- Ambient temperatures should be 15°C to 30°C and humidity 30% to 70%.
- Inside the printer, there are components that cause heat buildup (such as thermal print head and heat roller); be careful about ventilation.

NOTE

1. **Adjustments of ”aspect ratio”, “displacement”, “hue shift between colors”, and “tone differences” for the P-55 cannot be performed using the AP-55 software.**
   - The “Maintenance” tab in “Printing Preferences” for the corresponding printer is not displayed while “Print with AP-55” is selected from “Option” in the AP-55 software.
2. **Be sure to perform these adjustments directly to the printers one by one BEFORE installing them in the AP-55.**
3. **For adjustment details, refer to the P-55 instruction manual.**
4. **You are asked to specify the serial number of each printer installed in each AP-55 unit in the chapter 13 Using AP-55 Software on page 26. Make sure that you make a note of the serial number on the nameplate of the P-55 (on the back along the left side) when you install each printer in the AP-55**.

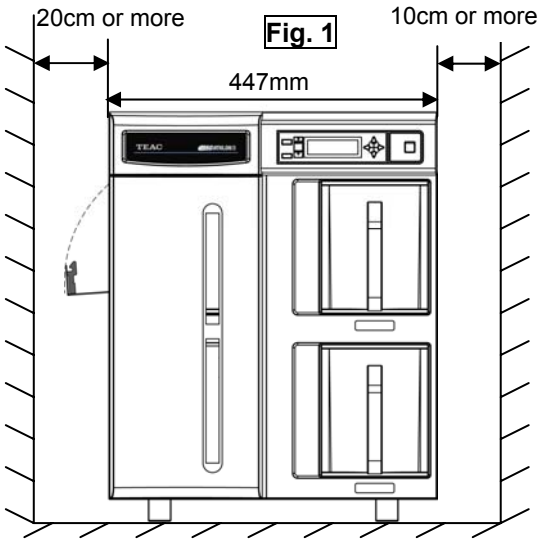


Fig. 1

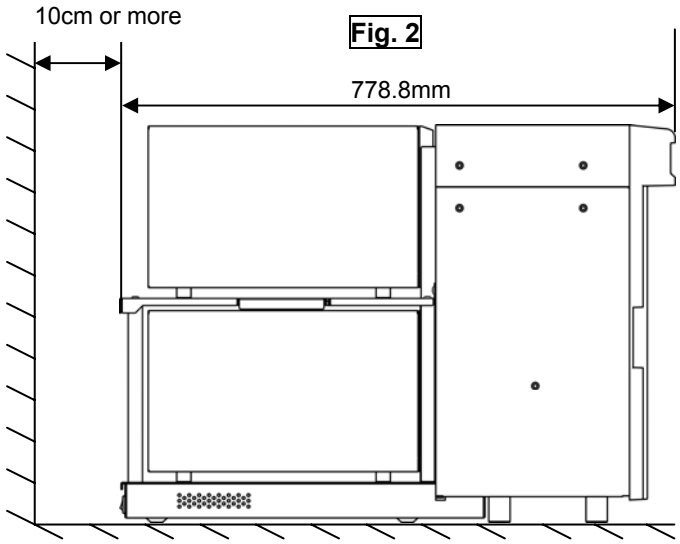


Fig. 2

7 Loading Disc into AP-55

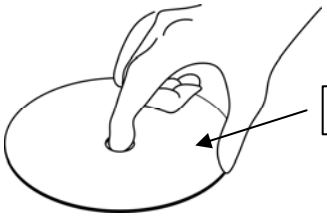
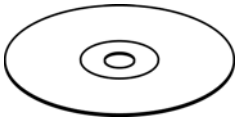
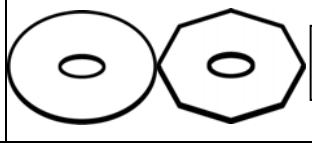
7-1 Installing media stackers

The AP-55 package includes four media stackers. Use them as follows for normal stacker modes.
- two stackers for holding blank discs to be printed
- two stackers for holding discs already printed

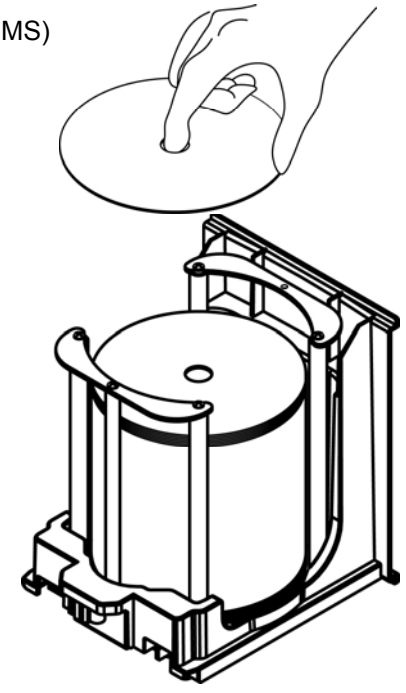
Note: you can change the above setting for a different mode.

For detailed information about how to use stackers, see the chapters **9 Loading Stackers into AP-55** on **page 20** and **14 Details on AP-55 Stacker Mode** on **page 48**.

CAUTION	**Discs purchased in bulk packages may adhere to one another. Make sure that you separate them before loading them into the unit; otherwise, the loader may fail to handle adhered discs.** **Make sure that you stack discs horizontally; otherwise, the loader may fail to handle discs properly.**

CAUTION	*** Hold a disc as shown.**
***Make sure that you do not touch either side of a disc with fingers: data recording side and label printing side. (Sebum on the disc surface can affect print quality)** **Protect your discs against scratches and foreign objects such dirt and dust as well.** ***Make sure that each disc is placed with the data recording side down when loading discs into a stacker. (See the image on the right.)**	
CAUTION	*** Disc protection materials**
Disc protection materials may come with discs you have purchased. (See A and B on the right) If that is the case, be careful not to place those materials in a stacker. **Read and follow the notes and instruction below.** ***A transparent disc is placed on both top and bottom of printable discs in a disc container.** ***Be sure to remove such protection materials.** ***Failure to follow the above instruction may cause the AP-55 to malfunction in the worst case.**	 **A** **Transparent disc**  **B** **Cushioning materials**

- Loading Blank Media into Stacker for Blank Media Stacker Tray (BMS)
  Place or stack unprinted blank discs in a stacker.
  (One stacker can accommodate 100 discs.)



Place or stack unprinted blank discs in a stacker.
(One stacker can accommodate 100 discs.)

8 Connecting & Getting AP-55 Started

8-1 Connecting AP-55 to your computer

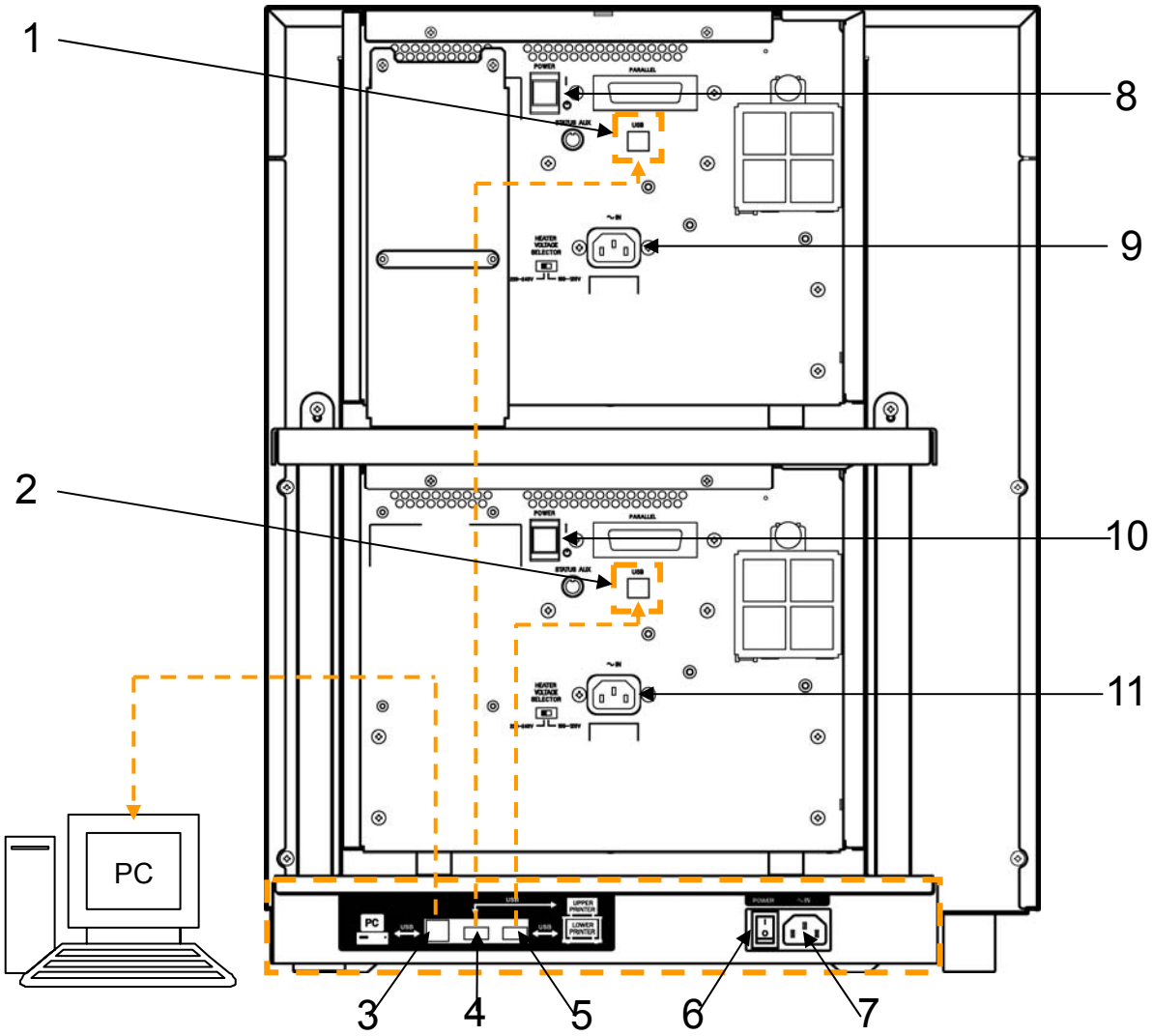
- If this is the first time that you are using your AP-55, read from the beginning of this chapter.
- If you have used your AP-55 before, read from the section **8-1-2 Regular startup** on **page 19**.

8-1-1 Getting AP-55 ready after opening package

Before moving on to the step 1 below, make sure that the heater voltage selector switch on the label printer P-55 is set to the appropriate line voltage for your country.

*The heater voltage selector switch is preset at the factory to 100-120V for the U.S. and Canada or 220-240V for Europe.
To locate the heater voltage selector switch, refer to the label printer P-55 instruction manual.
If this switch is not set correctly, the unit may malfunction.

Fig. 3



1. To connect the AP-55 to the P-55 units, plug one end of a USB cable into **1** and the other end into **4** and plug one end of another USB cable into **2** and the other end into **5**, as shown in **Fig. 3** above.(***Note1**)

***Note1** Make sure that you make a note of the serial numbers ("S/No.XXXXXXX") printed on the nameplates of the P-55 units along the bottom edges when you install them in the AP-55 so that you can match the lower and upper printers with the AP-55 in the section **13-1 Matching AP-55 and P-55 for use of multiple units**.

CAUTION **Be sure to connect a USB cable to each connector as shown in Fig. 3 above or as shown in the label attached near the connectors in the rear of the auto-loader unit. Failure to connect them properly may cause the unit to malfunction or result in damage to the unit.**

2. To connect the AP-55 to your computer, plug one end of a USB cable into **3** and the other end into your computer, as shown in **Fig. 3** above.

3. Set the main power switches **6**, **8**, and **10** to the OFF position (with "O" end pressed). Then, connect each power cable to **7** on the AP-55 and **9** and **11** on the P-55 units, as shown in **Fig. 3** on **page 14**, and plug in the AP-55, the P-55, and the computer. (***Note2**)

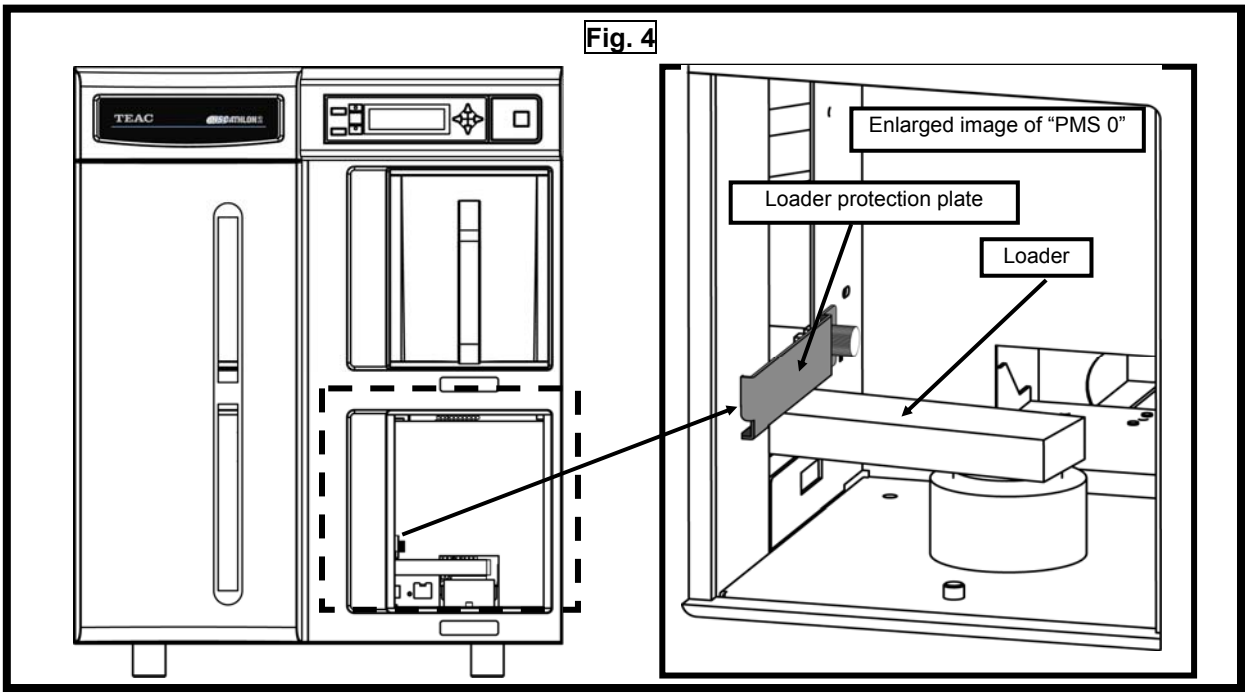
***Note2** Open the side door on each printer and make sure that all shipping materials are removed. For instruction details, refer to the chapter "Installing/Removing Shipping Protection Materials" in the P-55 instruction manual.

4. Load ink and transfer ribbons into the ink and transfer ribbon cartridges and then load those cartridges into the P-55. (***Note3**)

***Note3** For installation details, refer to the chapter "Loading Ribbons" in the P-55 instruction manual.

5. Remove the loader protection plate from the printed media stacker in PMS 0 tray, as shown in **Fig. 4** below.

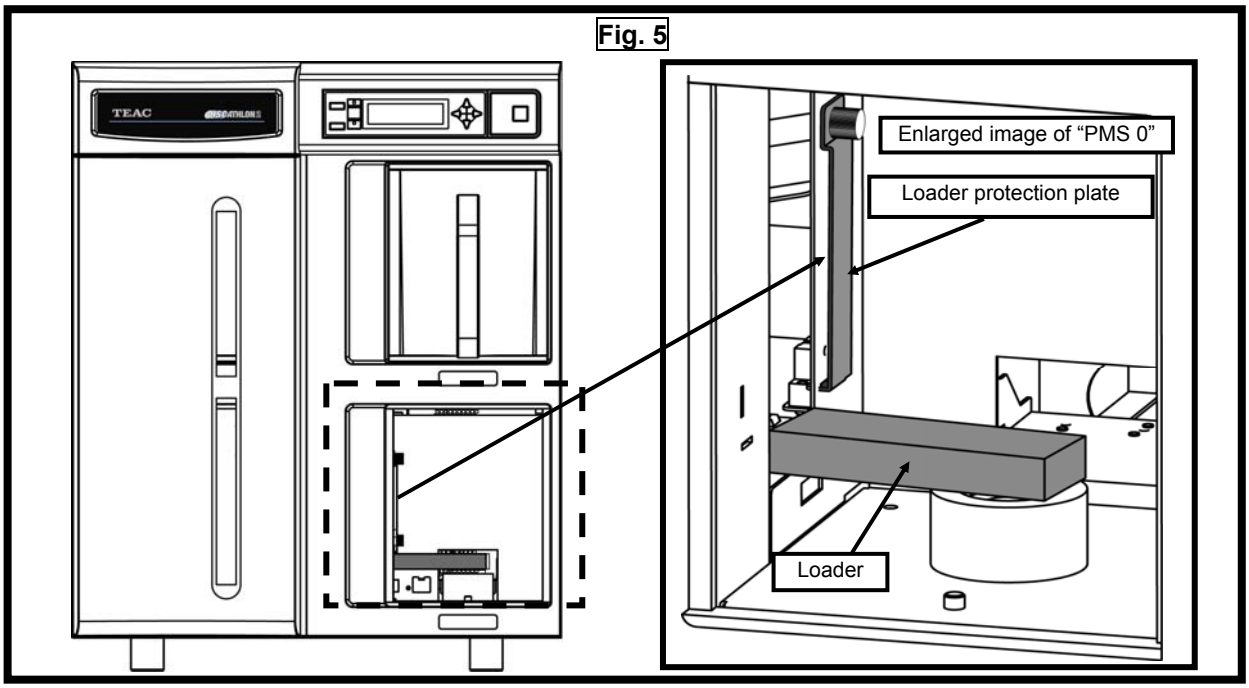
Fig. 4



6. Store the removed loader protection plate as shown in **Fig. 5** below. (***Note4**)

***Note4** Be sure to tighten the loader protection plate screw firmly as shown to secure the plate to the unit. The area for storing the loader protection plate has cut-outs. When you install the plate in the area, make sure that it fits into the cut-outs.

Fig. 5



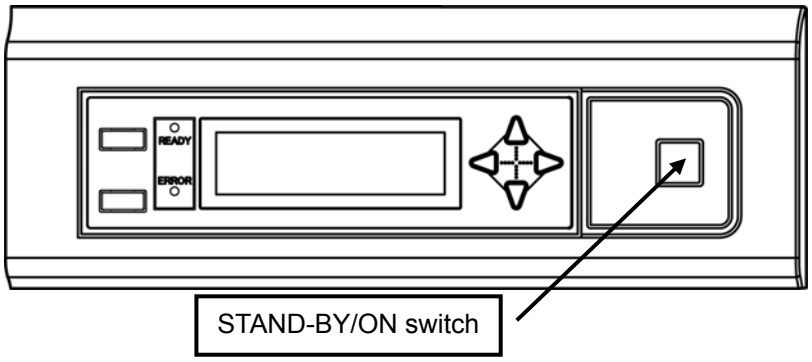
7. Close the front door on the AP-55.

8. Set the main power switches, **6** on the AP-55, and **8** and **10** on the label printers, to the ON position (with "|" end pressed) as shown in **Fig. 3** on **page 14**. (***Note5**)

***Note5** Set the main power switches on the P-55 (two units) first and then on the AP-55.

9. Press the STAND-BY/ON switch on the AP-55 as shown in **Fig. 6** below.

Fig. 6



WARNING ⚠ ***Pressing the STAND-BY/ON switch lifts the loader. Make sure that you keep your face and hands away from the inside of the stacker trays for your own safety.**

10. The AP-55 starts running. With the message "Welcome" displayed on the front panel, the loader moves up as shown in **Fig. 7** below. (***Note6**)

***Note6** The orange light from the READY lamp comes on and stays as shown above while the loader is moving.

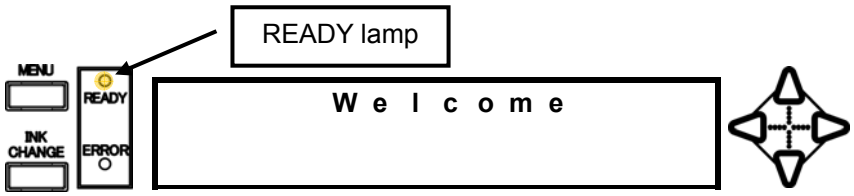
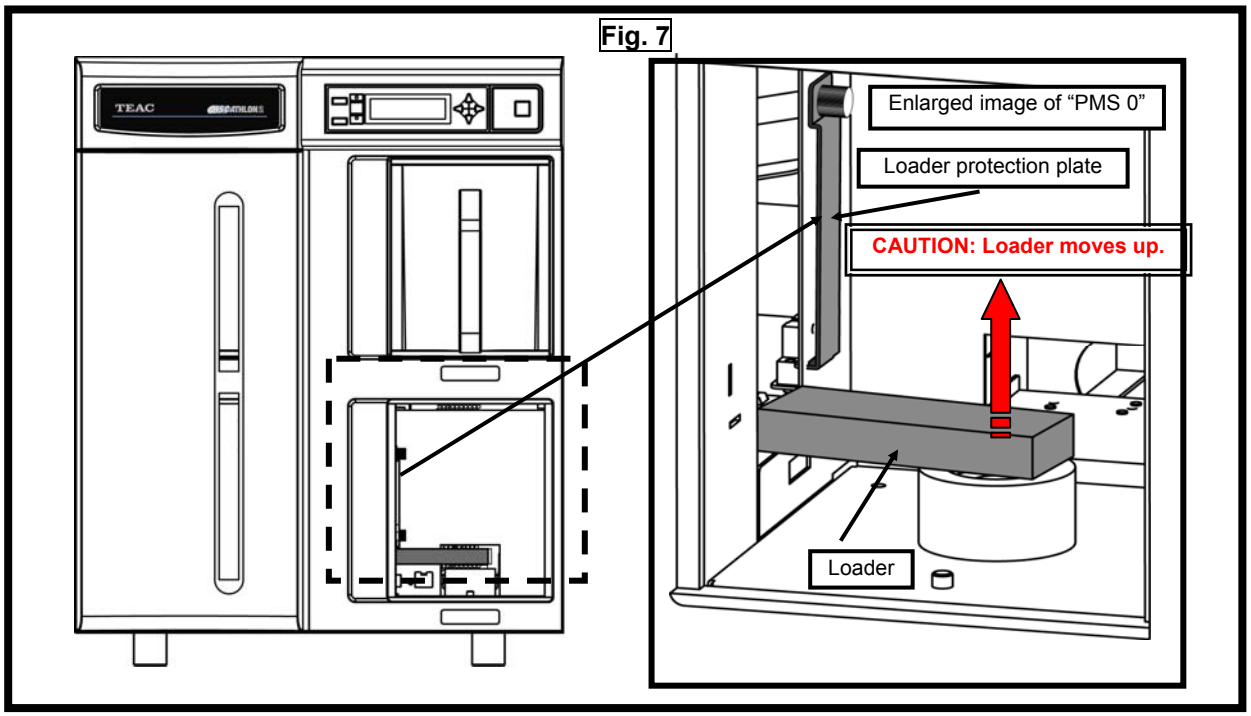


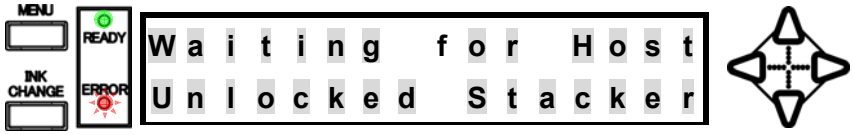
Fig. 7



8 Connecting & Getting AP-55 Started

11. The AP-55 starts the boot-up process with the loader moving up.
    Upon completion of the loader's initialization, the display indicates the message as shown below to show that the AP-55 is in standby state. (***Note7**)

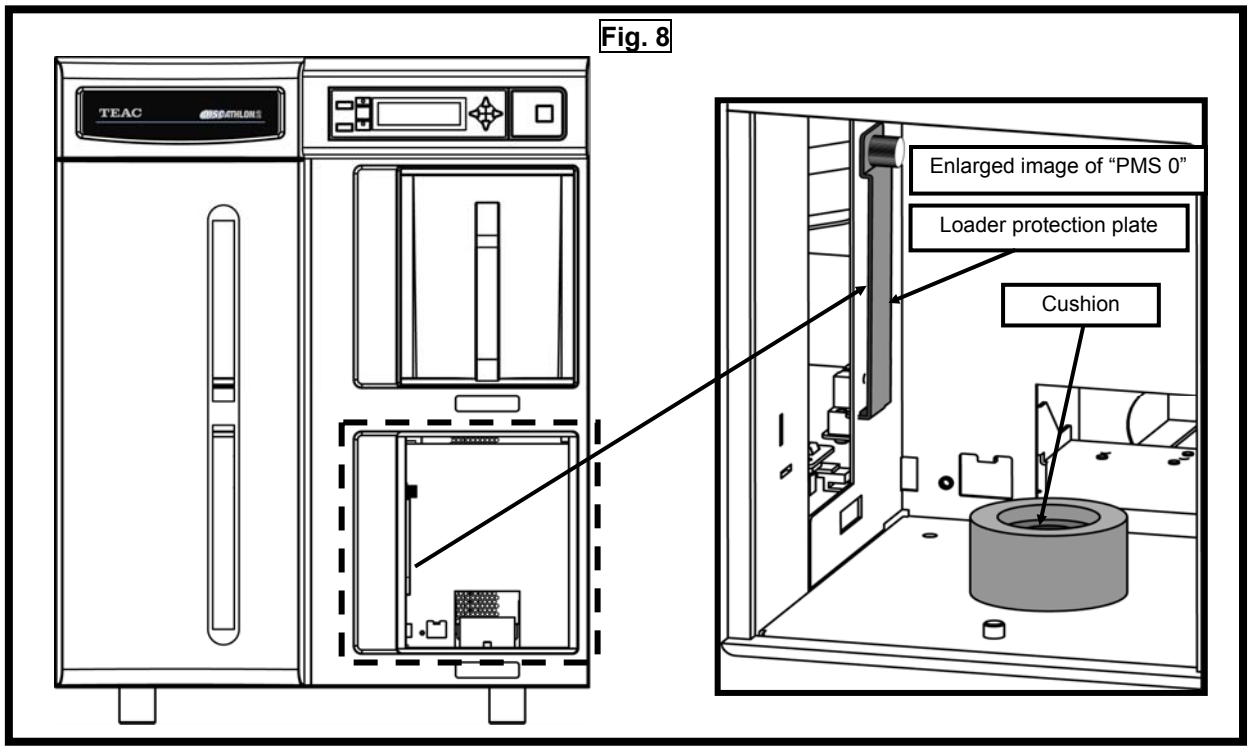
***Note7** At this stage, the message "Waiting … Unlocked…" blinks on the display since no stackers are installed in the trays.
The ERROR lamp on the front panel comes on and the auto-loader unit starts beeping.



Now, remove the shipping cushion, shown in **Fig. 8** below, from the PMS 0 tray. (***Note8**)

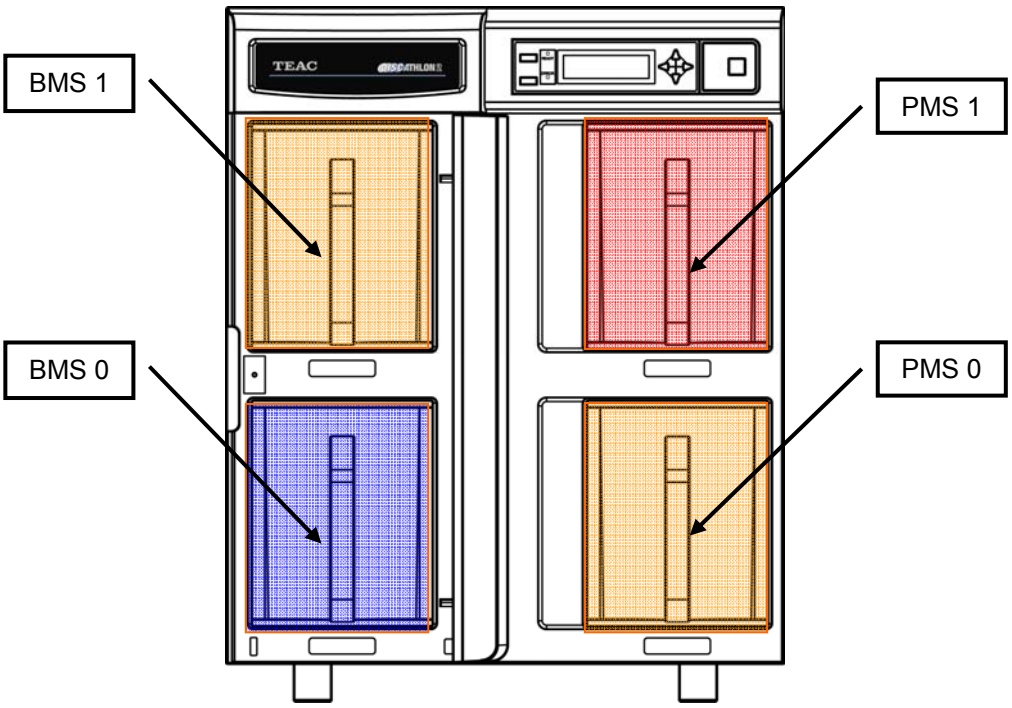
***Note8** Save this cushion and other shipping materials together in case you need to ship the AP-55 in the future.

Fig. 8



12. Insert a media stacker into each tray of the AP-55. For detailed information, see **Fig. 9** below and the chapter **9 Loading Stackers into AP-55** on **page 20**.
    *The message "Unlocked…" no longer appears after stackers are inserted into all the trays.

Fig. 9



- For stacker normal mode (where each stacker always holds the same type of discs: blank or printed) (***Note9**)

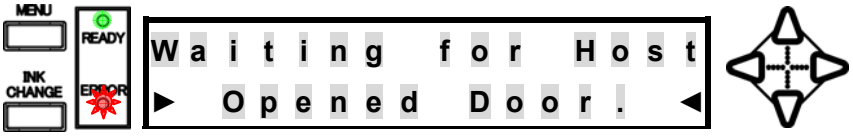
***Note9** Insert stackers with unprinted blank discs into the stacker trays "BMS 0" and "BMS 1".
Insert empty stackers into the stacker trays "PMS 0" and "PMS 1".

- For stacker optional mode (where the type of discs in each stacker depends on the stacker state) (***Note10**)

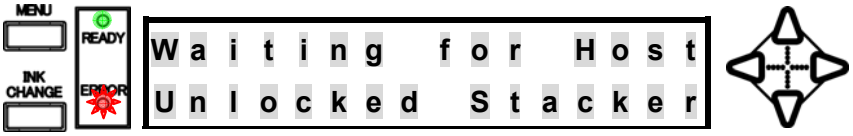
***Note10** Insert stackers with unprinted blank discs into the stacker trays "BMS 0", "BMS 1," and "PMS 0".
Insert an empty stacker into the stacker tray "PMS 1".

13. The following warning message is displayed on the front panel until stackers are inserted completely into all the trays and the front door is closed.

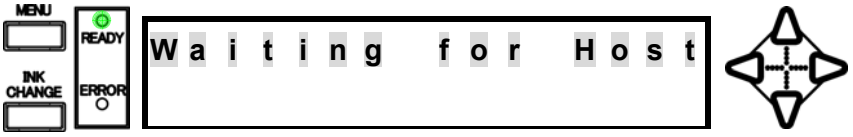
    Warning message shown when the front door is open. (The message shaded in the following image blinks, the ERROR lamp comes on, and the auto-loader unit starts beeping.)



    Warning message shown when error occurs in a stacker tray. (The message shaded in the following image blinks, the ERROR lamp comes on, and the auto-loader unit starts beeping.)



    When all necessary settings are completed, the message shaded in the following image starts blinking to show that the AP-55 is waiting for a command to be sent from your computer.
    (The READY lamp on the front panel comes on while the ERROR lamp goes off and the auto-loader unit stops beeping.)



Now the first startup procedure to be followed after the AP-55 is unpacked is complete.

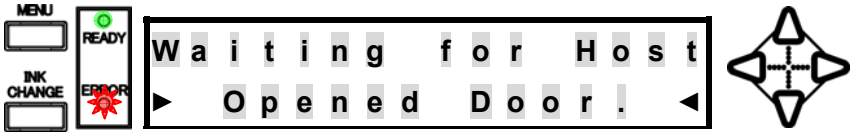
8-1-2 Regular startup

1. Set the main power switches, **6** on the AP-55, and **8** and **10** on the label printers to the ON position (with the "|" end pressed) as shown in **Fig. 3** on **page 14**.

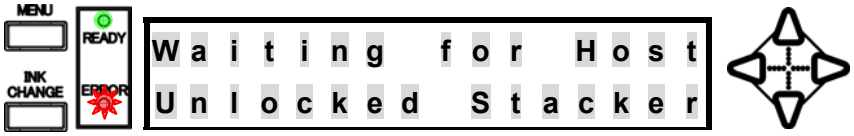
2. Press the STAND-BY/ON switch on the front panel of the AP-55 as shown in **Fig. 6** on **page 16**.

3. The AP-55 starts up while the loader goes through its initialization process.
   The following warning message is displayed on the front panel until stackers are inserted into all the trays and the front door is closed.

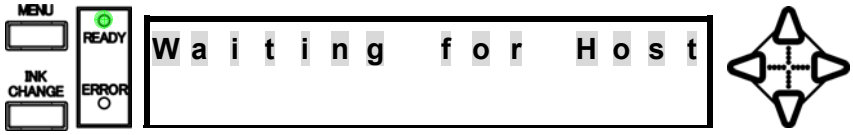
   Warning message shown when the front door is open. (The message shaded in the following image blinks, the ERROR lamp comes on, and the auto-loader unit starts beeping.)



   Warning message shown when error occurs in a stacker tray. (The message shaded in the following image blinks, the ERROR lamp comes on, and the auto-loader unit starts beeping.)



   When all necessary settings are completed, the message shaded in the following image starts blinking to show that the AP-55 is waiting for a command to be sent from your computer.
   (The READY lamp on the front panel comes on while the ERROR lamp goes off and the auto-loader unit stops beeping.)



The regular startup procedure is complete.

9 Loading Stackers into AP-55

9-1-1 Installing unprinted blank / printed media stackers

1) Open the front door on the unit. Install stackers for unprinted blank discs as follows.

-For stacker normal mode,
*Insert stackers with unprinted blank discs into the stacker trays “BMS 0” and “BMS 1”.

-For stacker optional mode,
* Insert stackers with unprinted blank discs into the stacker trays “BMS 0”, “BMS 1,” and “PMS 0”.

2) Close the front door. (***Note1**)

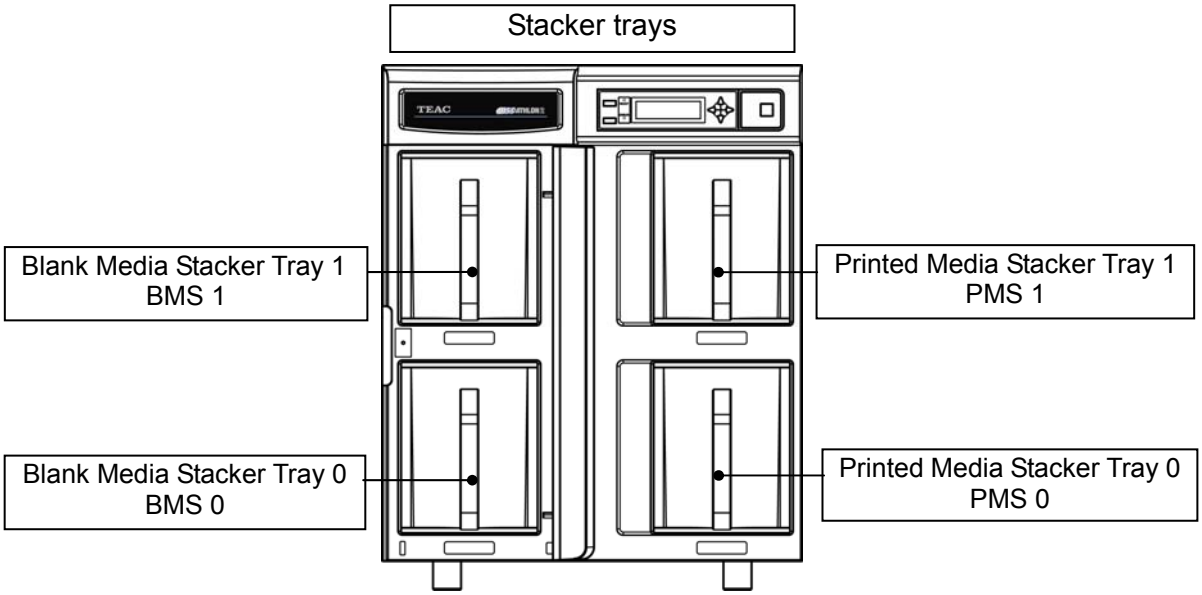
***Note1** Make sure that you have also inserted empty stacker(s) into the tray(s) you do not use.

3) Install stackers in the printed media stacker trays “PMS” to collect printed media.

-For stacker normal mode
* Insert empty stackers into the stacker trays “PMS 0” and “PMS 1”.

-For stacker optional mode
* Insert an empty stacker into the stacker tray “PMS 1”.

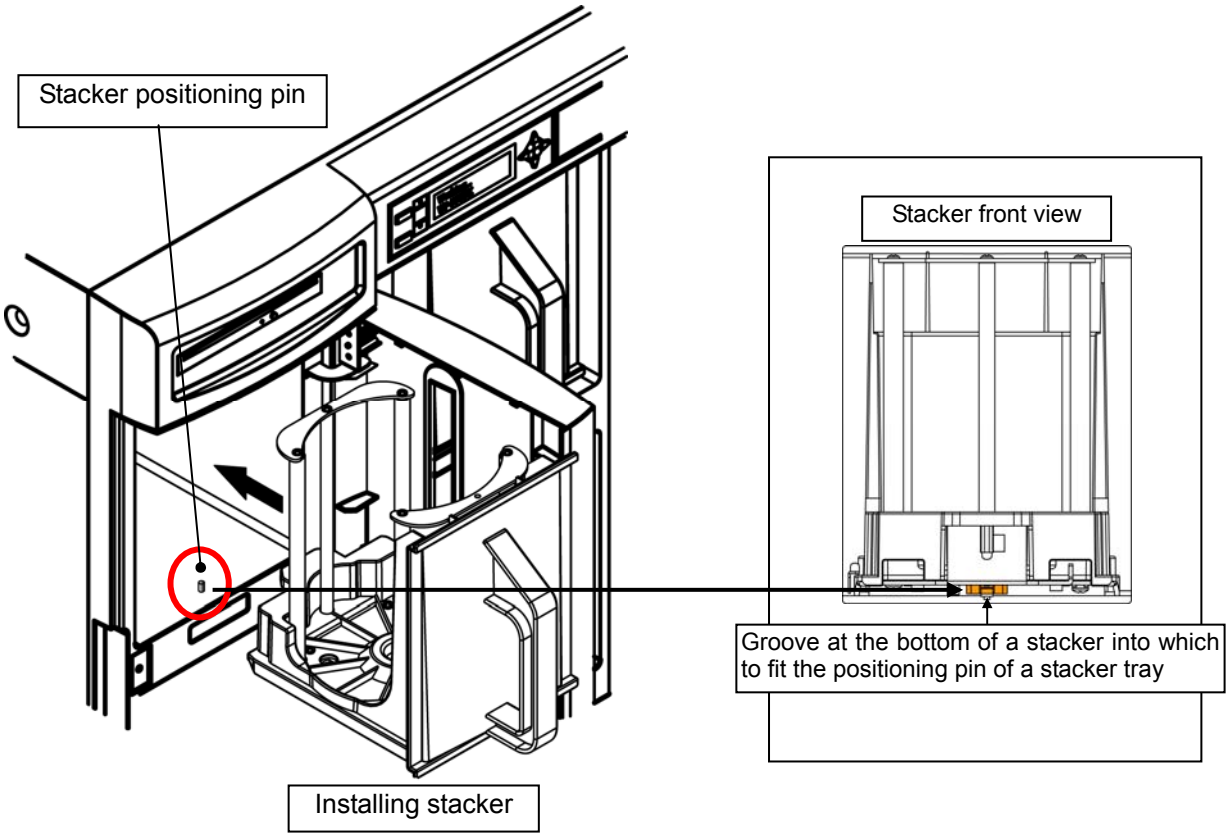
The media stacker installation procedure is complete.



CAUTION	**Important note about handling media stackers** **The AP-55 has a lock mechanism that secures the stackers to prevent damage to the auto-loader unit while the loader is moving.** **Attempting to remove stackers forcibly while the loader is moving may displace the stackers, resulting in possible media chucking failure. When you install stackers in the trays, make sure that you push them until they hit the tray walls.**

9-1-2 Stacker installation notes

CAUTION **When installing stackers, locate a positioning pin on each tray (as circled in the illustration below) and fit the pin into a matching groove at the bottom of each stacker.**


Stacker positioning pin
Stacker front view
Groove at the bottom of a stacker into which to fit the positioning pin of a stacker tray
Installing stacker

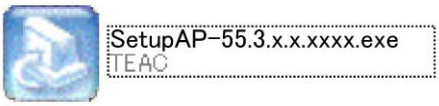
CAUTION

Make sure that the white LED on each tray is ON while a stacker is installed in each tray after the AP-55 has been turned on.
When the LED blinks, the sensor installed in the inner part of the tray is unable to detect a stacker. Remove the stacker and place it back in the tray, or check both the tray and stacker for foreign substances. If you find foreign substances, remove them from the stacker and place the stacker back in the tray.

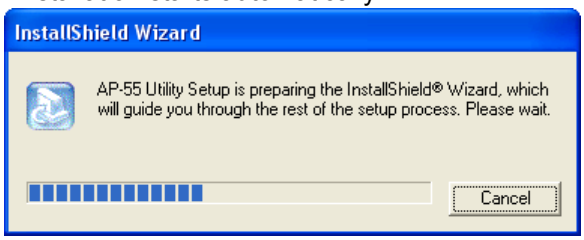
10 Installing AP-55 Software

CAUTION	Before installing the AP-55 software, you must install Disc Label Editor from the P-55 Utility Software CD-ROM. *If the version of P-55 Utility Software on your computer is older than Ver2.0.0.10, contact your local dealer/reseller. *Before installing the latest version, make sure that you remove the older version of the software from your computer. *For installation and removal procedures, read the P-55 instruction manual.

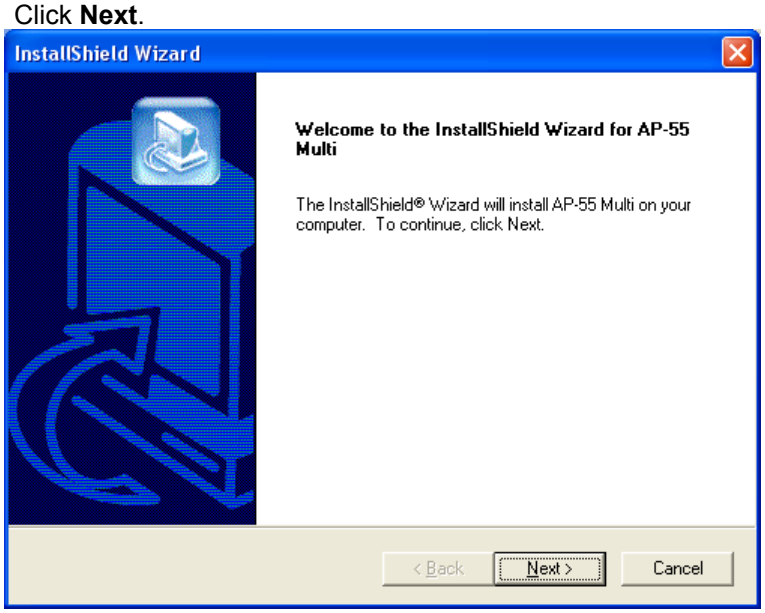
1. Start up your computer.
   You need to install software to control the system that uses the AP-55 and the P-55 through the computer.
   Insert the provided AP-55 Utility Software CD-ROM into a DVD/CD-ROM drive of your computer.
   Click **Start**, open **My Computer**, and double-click the icon for the appropriate CD Drive, **CONTROL**, and then **SetupAP-55.3.x.x.xxxx.exe**. (See below.)



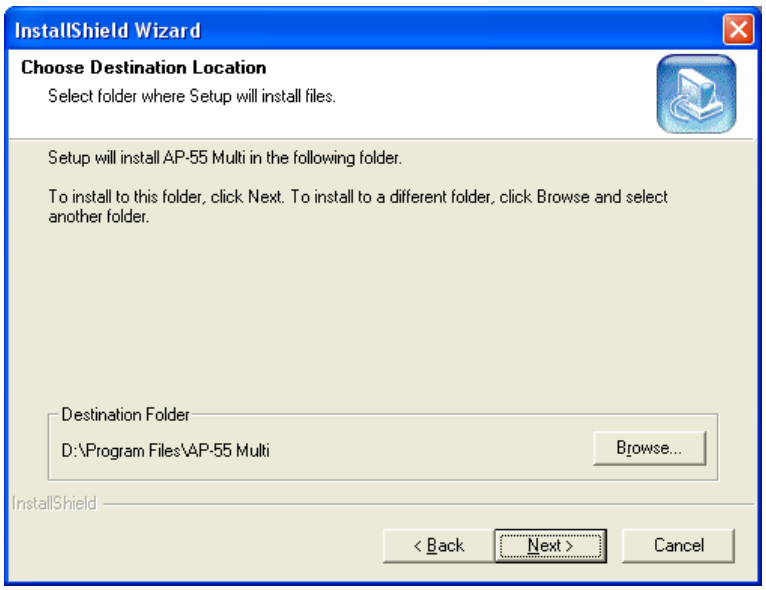
2. Installation starts automatically.


InstallShield Wizard
AP-55 Utility Setup is preparing the InstallShield® Wizard, which will guide you through the rest of the setup process. Please wait.
Cancel

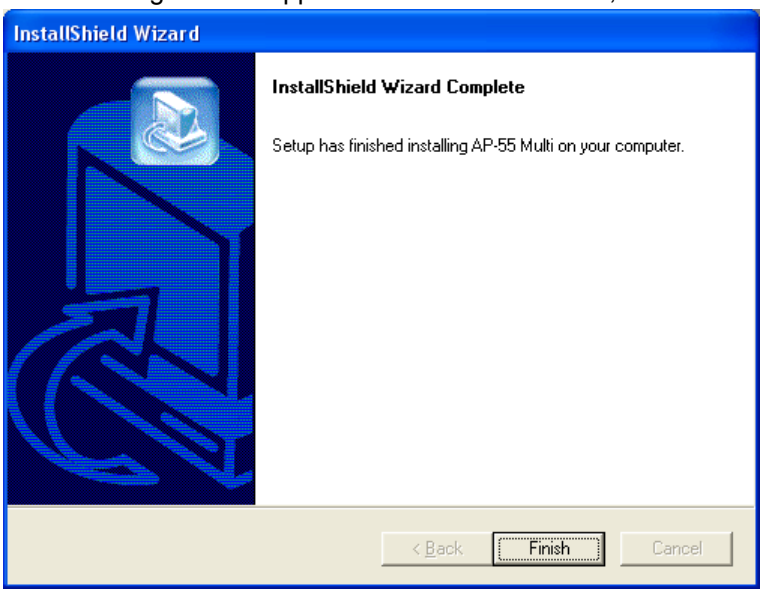
3. Click **Next**.


InstallShield Wizard
Welcome to the InstallShield Wizard for AP-55 Multi
The InstallShield® Wizard will install AP-55 Multi on your computer. To continue, click Next.
< Back
Next >
Cancel

4. The window “Choose Destination Location” appears on the screen.
   To proceed using the folder specified in the window, click **Next**.
   (*If you want to install AP-55 Utility to a different folder, click **Browse** and select the folder you want to use. Then, click **Next**.)


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install AP-55 Multi in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
D:\Program Files\AP-55 Multi
Browse...
InstallShield
< Back
Next >
Cancel

5. The following window appears on the screen. Then, click **Finish**.



6. The following icon appears on the Desktop.

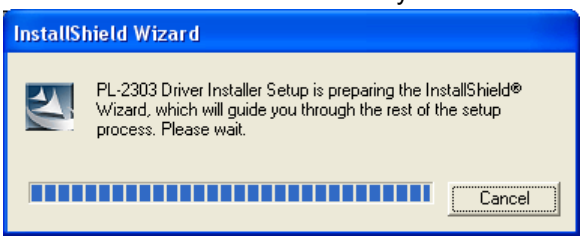
You also need to install the AP-55 USB driver.
For installation details, refer to the chapter **11 Installing AP-55 USB Driver** on **page 24**.

11 Installing AP-55 USB Driver

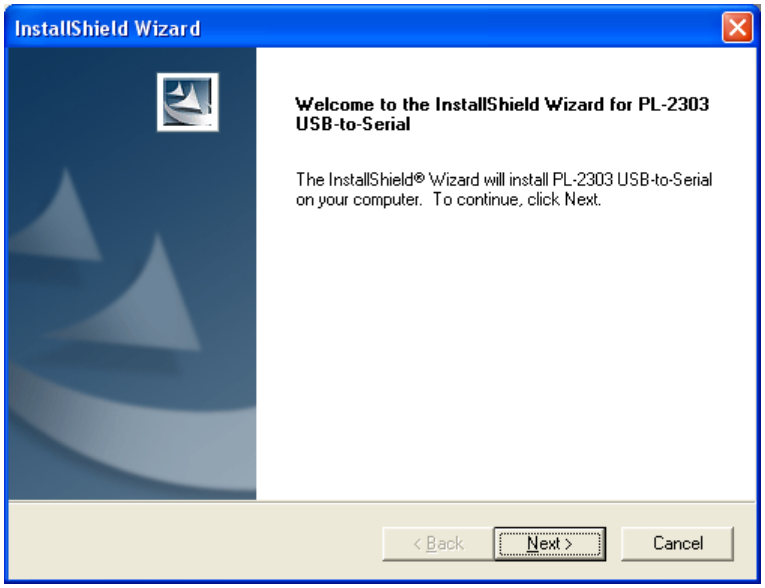
You need to install the AP-55 USB driver.
Insert the provided AP-55 Utility Software CD-ROM into a DVD/CD-ROM drive of your computer.
*The file name differs depending on the operating system on your computer. Execute the file as shown below.

In Windows XP: point to **Start**, open **My Computer**, and double-click the icon for the appropriate CD Drive, **USB DRIVER**, and then **PL-2303 Driver Installer.exe**.
In Windows Vista: point to **Start**, open **My Computer**, and double-click the icon for the appropriate CD Drive, **USB DRIVER**, and then **PL-2303 Vista Driver Installer.exe**.

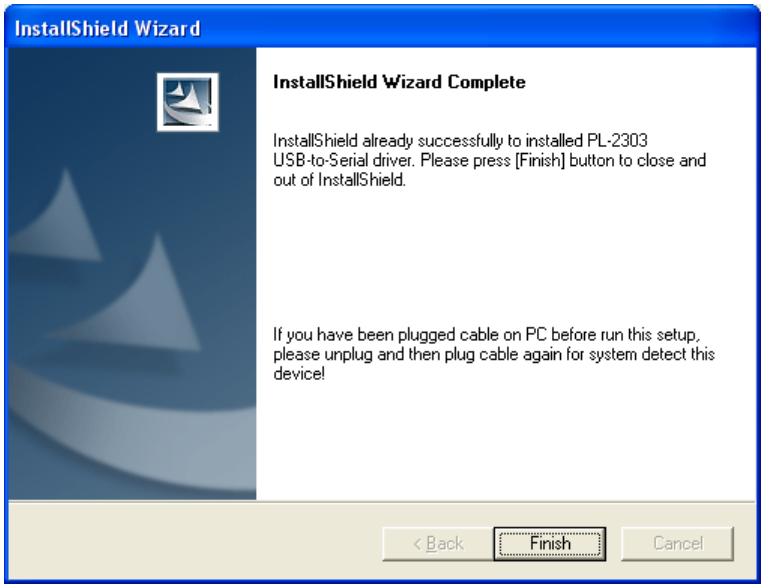
1. Installation starts automatically.


InstallShield Wizard
PL-2303 Driver Installer Setup is preparing the InstallShield® Wizard, which will guide you through the rest of the setup process. Please wait.
Cancel

2. Click **Next**.


InstallShield Wizard
Welcome to the InstallShield Wizard for PL-2303 USB-to-Serial
The InstallShield® Wizard will install PL-2303 USB-to-Serial on your computer. To continue, click Next.
< Back
Next >
Cancel

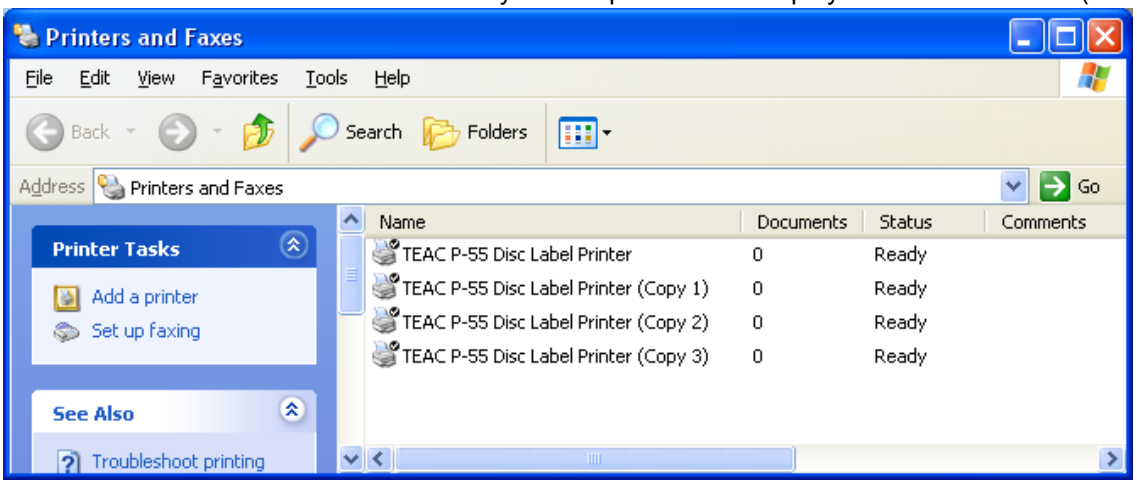
3. Click **Finish**.


InstallShield Wizard
InstallShield Wizard Complete
InstallShield already successfully to installed PL-2303 USB-to-Serial driver. Please press [Finish] button to close and out of InstallShield.
If you have been plugged cable on PC before run this setup, please unplug and then plug cable again for system detect this device!
< Back
Finish
Cancel

The AP-55 USB driver installation procedure is complete.

12 Checking After Startup

- After the AP-55 software and the AP-55 USB driver have been installed, click **Start** and open **Printers and Faxes** to make sure that TEAC P-55 Disc Label Printer icons for the P-55 units you have connected to the auto-loader units and to your computer are all displayed as shown below. (***Note1**)



Note1** If you follow the procedures exactly as explained in this manual to establish connections between multiple auto-loader units (up to four units), printers, and your computer, the names of the printers should be as follows. (Note2**)

The names of the printers for the first AP-55 you configured.
-Upper printer (installed in the upper portion of the AP-55) --> **TEAC P-55 Disc Label Printer**
-Lower printer (installed in the lower portion of the AP-55) --> **TEAC P-55 Disc Label Printer (Copy 1)**
The names of the printers for the second AP-55 you configured.
-Upper printer (installed in the upper portion of the AP-55) --> **TEAC P-55 Disc Label Printer (Copy 2)**
-Lower printer (installed in the lower portion of the AP-55) --> **TEAC P-55 Disc Label Printer (Copy 3)**
The names of the printers for the fourth AP-55 you configured.
-Upper printer (installed in the upper portion of the AP-55) --> **TEAC P-55 Disc Label Printer (Copy 6)**
-Lower printer (installed in the lower portion of the AP-55) --> **TEAC P-55 Disc Label Printer (Copy 7)**

[Tips] We recommend that you rename those installed printers by adding the serial number of each printer to its printer name.
e.g. [TEAC P-55 Disc Label Printer (0001)], [TEAC P-55 Disc Label Printer (0002)...
[TEAC P-55 Disc Label Printer (0008)]

***Note2 The printer names shown above are only automatically assigned to the label printers; they <u>DO NOT help you locate the actual printers</u>.**
For example, if you delete all icons (***Note3**) for your label printers from the **Printers and Faxes** window and let your computer recognize them again by reconnecting your lower printer first and then your upper printer to the AP-55, **<u>the lower printer would be assigned the name "TEAC P-55 Disc Label Printer"</u>** while **<u>the upper printer would be "TEAC P-55 Disc Label Printer (Copy 1)"</u>** in the Printers and Faxes window.

***Note3 Important note about printer icon**
<u>If you delete the icon for a P-55 printer driver, the following settings you configured for the corresponding printer return to their initial values.</u>
<u>- "(disc) Size" and "Color correction" on the "Standard" tab</u>
<u>- "Low" and "High" for each color on the "Color Adjust" tab</u>
<u>- "CMY(K)" on the "Color Balance" tab</u>
We recommend that you make a note of the values you entered for the above settings to prevent them from being inaccessible before removing or re-installing the printer driver, having the printer repaired, connecting the printer to a different computer, or performing any action that deletes your P-55 printer icon.

<u>To identify the upper and lower printers</u>, check the USB connectors that USB cables are plugged into on the rear panel of the auto-loader unit as shown in **Fig. 10** below.

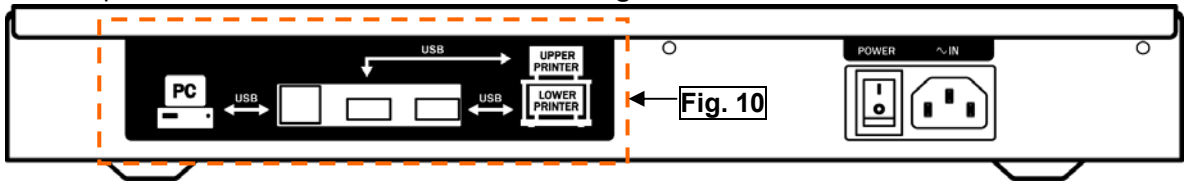


Fig. 10

CAUTION **To make USB connections, refer to 1. of the section 8-1-1 Getting AP-55 ready after opening package on page 14 in this manual, or refer to the label attached on the rear panel of the auto-loader unit. Failure to make proper connections may cause the unit to malfunction or damage to the unit.**

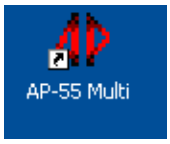
13 Using AP-55 Software

13-1 Matching AP-55 and P-55 for use of multiple units

Each auto-loader unit needs to be matched with the printers installed when using multiple AP-55.

- A unit number “#X” is assigned to each AP-55 unit if you use more than one AP-55 unit at the same time. Using such unit numbers on the AP-55 units and serial numbers shown on the P-55 units, you need to match the AP-55 and its installed P -55 units in the AP-55 software AP55 Multi.exe.
  ***An incorrect match may cause the AP-55 and the P-55 to malfunction or cause damage to them.**
- The printer serial number is printed on the nameplate on the rear of each printer. Before selecting the serial numbers of the printers corresponding to each AP-55 unit using AP55 Multi.exe, be sure to refer to the serial numbers you made a note of previously in the section **8-1-1 Getting AP-55 ready after opening package** on **page 14**.
- A unit number “#X" is assigned to each AP-55 unit during the AP55 Multi.exe startup process.

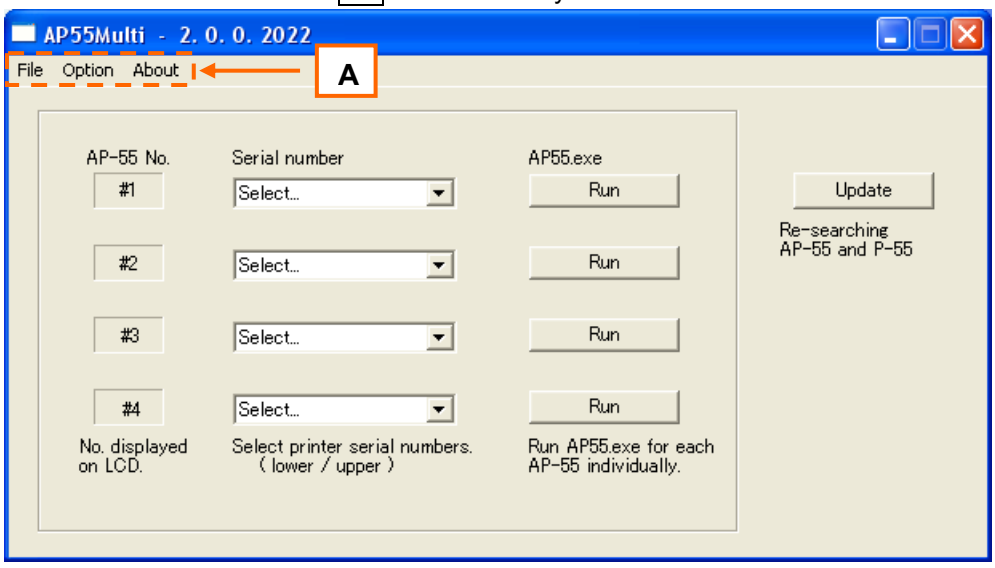
1. Turn on your computer.
2. Double-click the icon for AP55 Multi.exe on the desktop shown after installing the AP-55 software as explained in the chapter **10 Installing AP-55 Software**.



*The dialog “Windows Security Alert” appears on the screen when you start AP55 Multi.exe for the first time. Click **Unblock**.

Windows Security Alert
To help protect your computer, Windows Firewall has blocked some features of this program.
Do you want to keep blocking this program?
Name: AP55CTRL
Publisher: TEAC Corporation (Japan)
Keep Blocking
Unblock
Ask Me Later
Windows Firewall has blocked this program from accepting connections from the Internet or a network. If you recognize the program or trust the publisher, you can unblock it. When should I unblock a program?

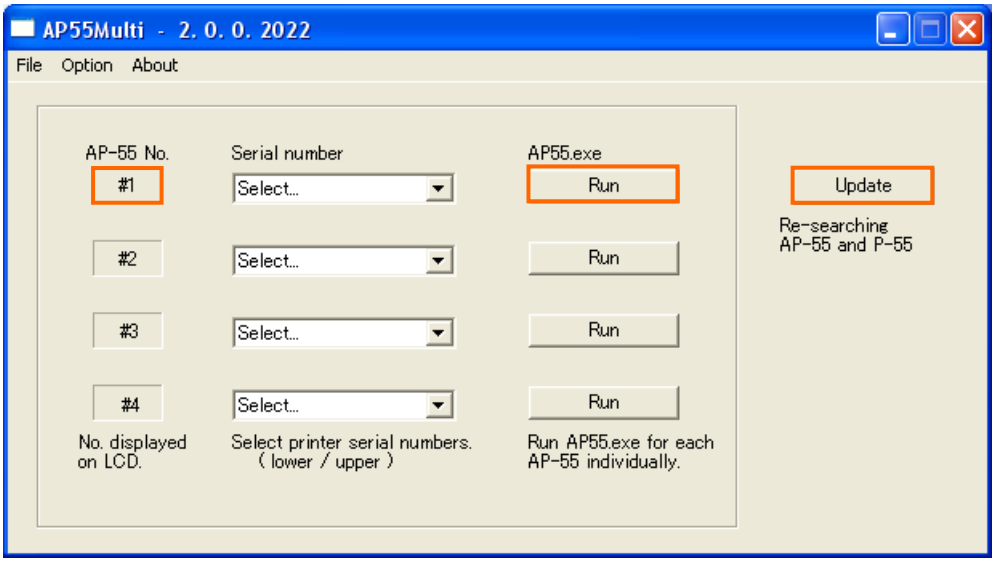
3. The AP-55 software AP55 Multi.exe starts running. The following window appears on the screen.
   *Refer to the section **13-3 Functions in AP55 Multi.exe selection window** on **page 32** for detailed information about the area [A] surrounded by dotted lines shown below.



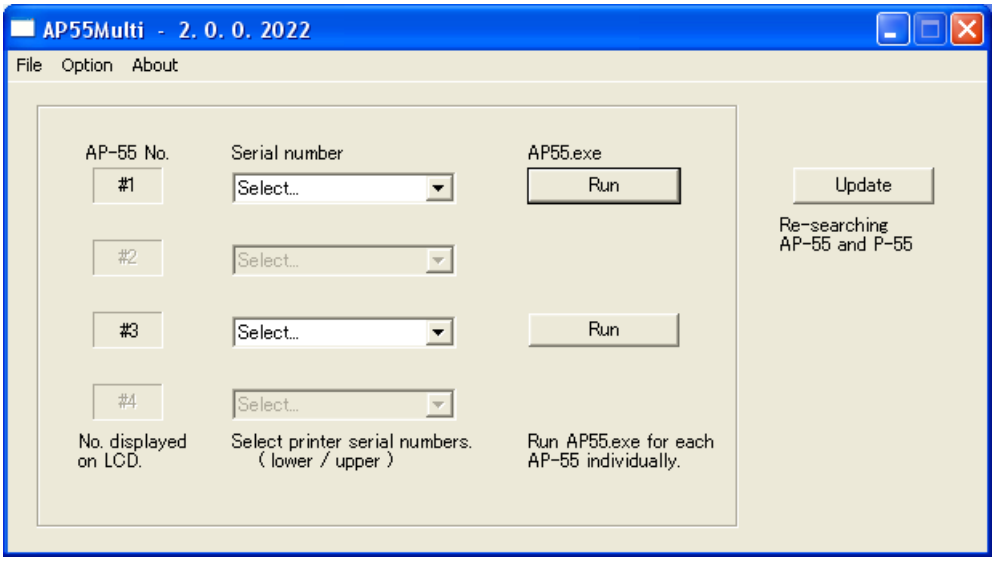
4. **The AP-55 unit numbers "#X" and the corresponding "Run" buttons are displayed when the AP-55 units are connected properly.**

NOTE **If either one of the two printers installed in the AP-55 operates properly, the unit number "#X" and the Run button are displayed.**

4-1. If the AP-55 units #1 to #4 are connected...

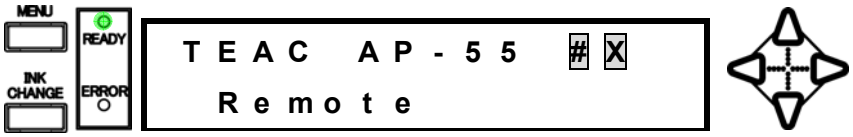


4-2. If the AP-55 units #1 and #3 are connected…

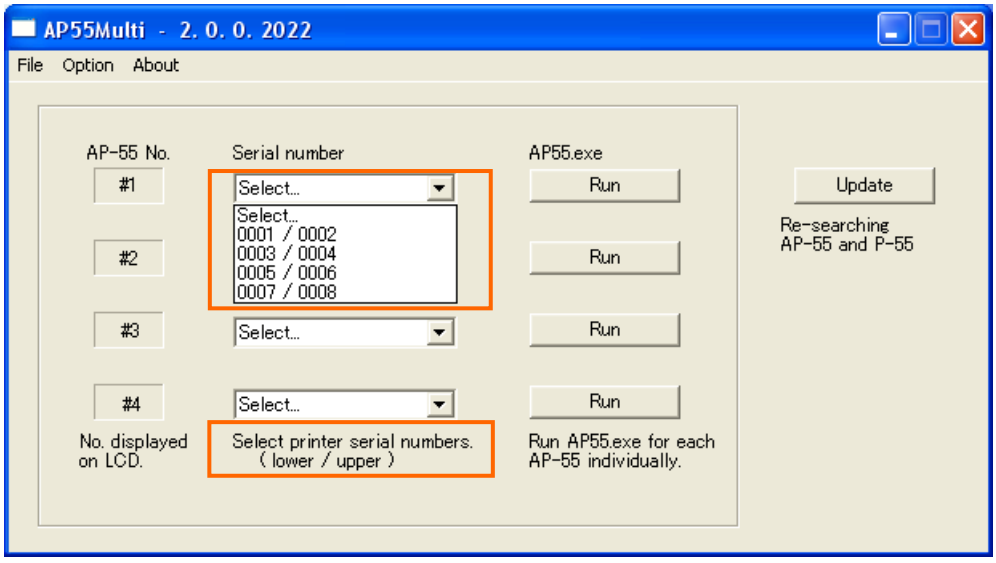


CAUTION	**The selection window displays only the last four digits of the printer serial number "XXXXXXX" while the serial number printed on the nameplate of the printer is a 7-digit number "XXXXXXX".** **Failure to select the appropriate printer serial numbers for each auto-loader unit may cause the AP-55 and the P-55 to malfunction or damage to them.**

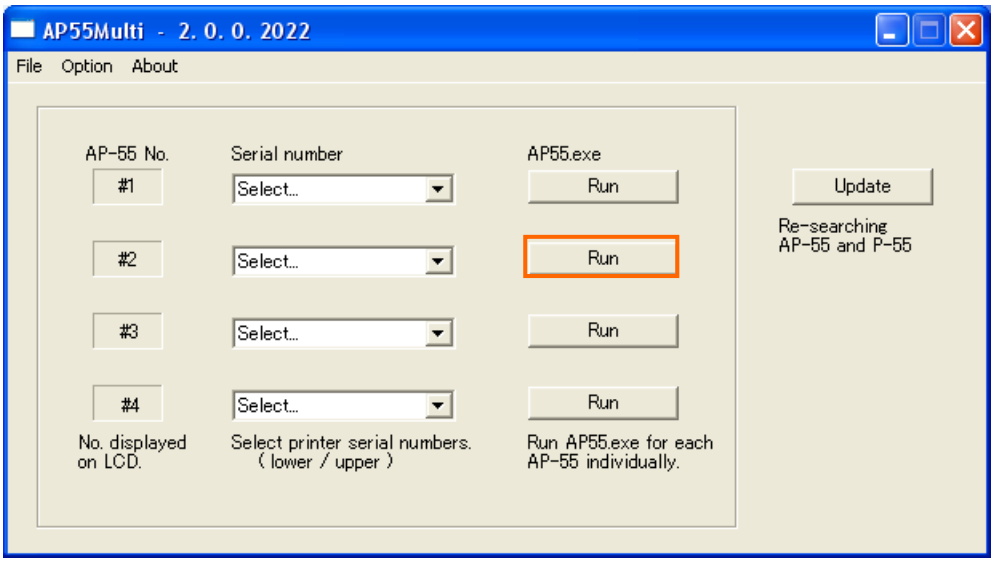
5. To match the AP-55 unit you want to use and the printers installed in the AP-55 chosen, you need to know the AP-55 unit number and the serial numbers of the corresponding printers.
   To learn the unit number, check the display on the front panel of the AP-55 unit chosen after its startup process is complete. The unit number is displayed as "#X", as shown below.
   For the serial numbers of its installed printers, **refer to the serial numbers that you made a note of previously when installing the printers**.



6. In the selection window, locate the unit number of the AP-55 you want to use. Then, click the pull-down menu next to the unit number and select the serial numbers of the printers installed.
   *The serial number of the printer installed in the lower portion of the AP-55 ("lower printer") and the serial number of the printer in the upper portion ("upper printer") are displayed, separated by a slash, as in "0001/0002", for example.
   *In the window below, the unit numbers of four AP-55 units are displayed along the left side while four pairs of serial numbers of eight P-55 units installed are also shown in the pull-down menu.

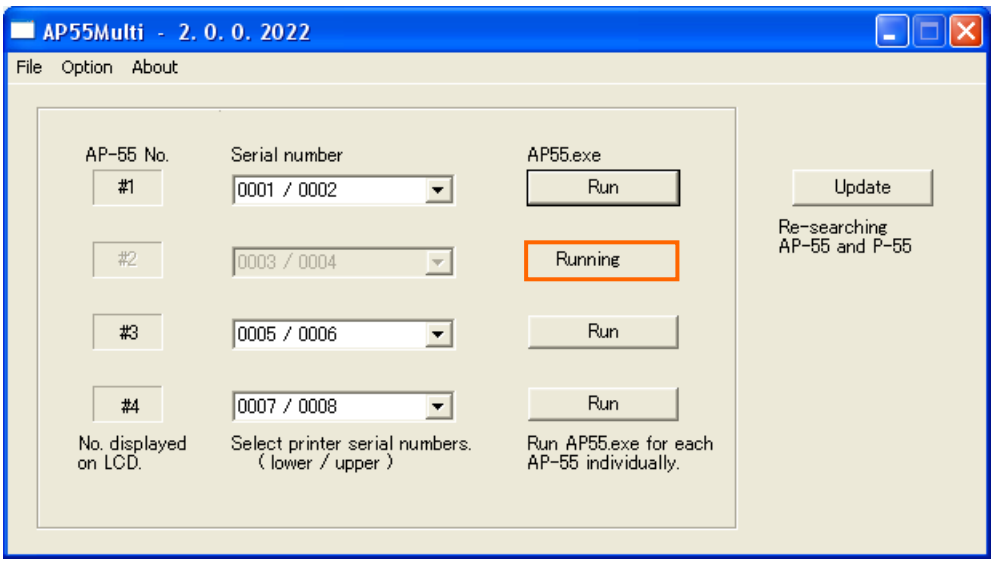


7. After you have finished selecting the serial numbers of the corresponding printers for all the AP-55 units you want to use, click the **Run** buttons one by one, located next to the pull-down menus.
In the following example, the Run button for the AP-55 #2 will be clicked.



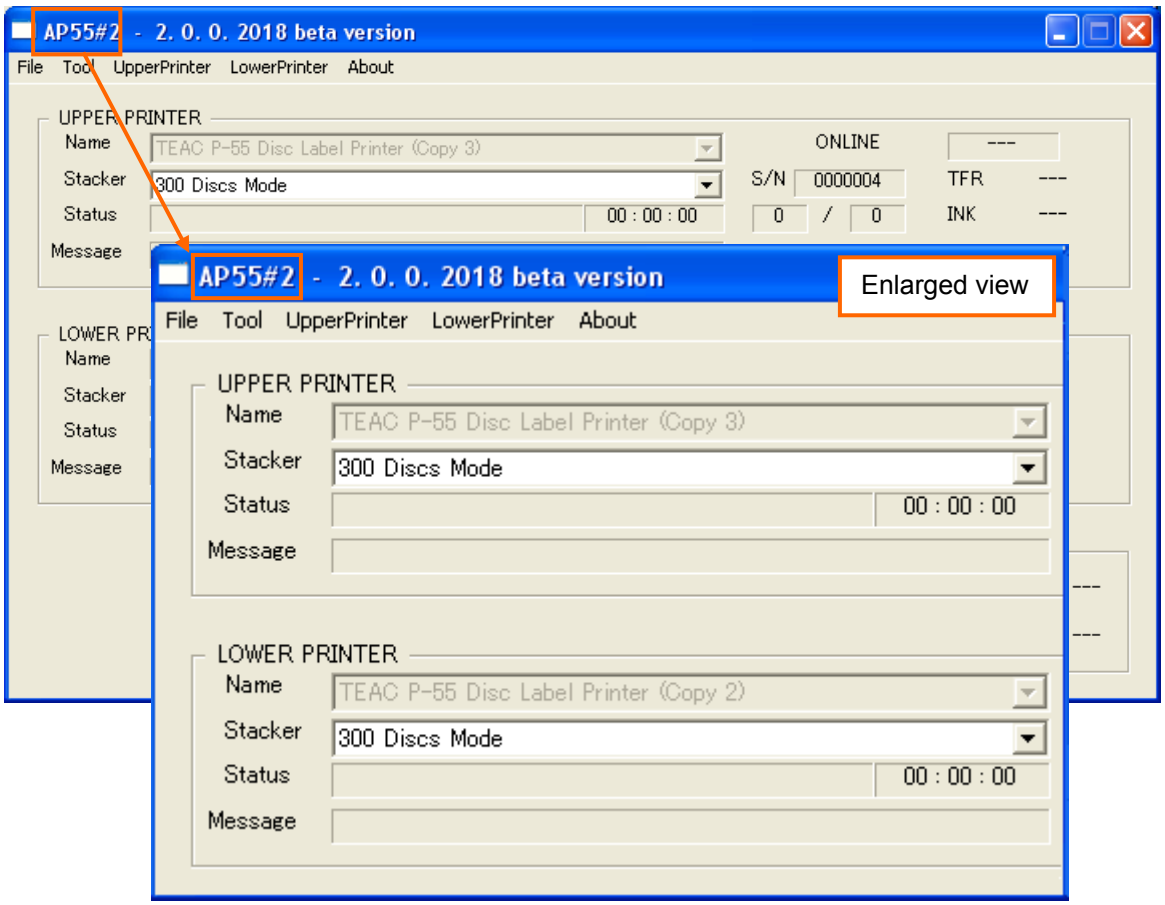
NOTE	**If only one or no printers are installed in the AP-55 you use or a printer installed has a communication problem, "None" is displayed instead of its serial number in the pull-down menu.** **For detailed information about how to fix a communication problem, read the section 13-2 Reselecting printers after fixing printer error on page 31.**

7-1. The Run button clicked above changes to "Running" with the corresponding AP-55 unit number "#X" and its serial number pull-down menu graying out.



8. The AP-55 system monitor window appears on the screen as shown below to indicate that the software AP55.exe starts running for the AP-55 unit for which you clicked the Run button.
   *The Run button for the AP-55 #2 is clicked in the example below.
   *If you click the “Run” buttons one by one for all the AP-55 units #1 to #4, four AP-55 system monitor windows appear on the screen.
   *The AP-55 unit number is displayed as “AP-55#n” at the top left-hand corner of the system monitor window.

AP-55 system monitor window “AP55.exe”

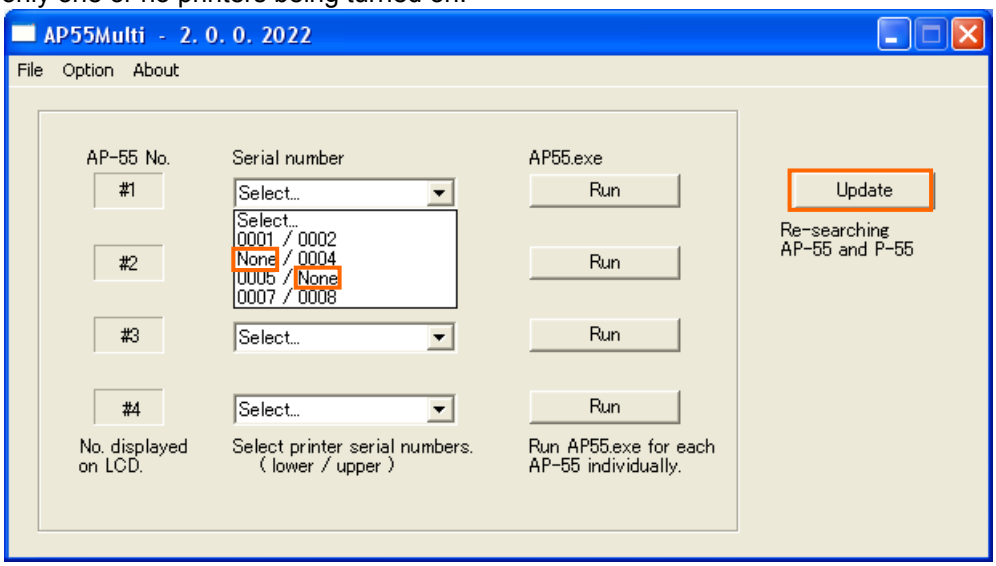


Matching the AP-55 and the P-55 is complete now.
The next step is to select a stacker mode using the system monitor window for each AP-55 unit. Move on to the section **13-4 Selecting stacker mode** on **page 35**.

NOTE	If a printer communication error occurs after you have started AP55.exe, read and follow the instructions in the section **13-2 Reselecting printers** on **page 31**.

13-2 Reselecting printers after fixing printer error

If a printer installed in the AP-55 has a communication error, “None” is displayed instead of its serial number in the pull-down menu. (“None” is also displayed if there is only one or no printer installed.) In the window shown below, printers with serial numbers “0003” and “0006” do not exist or may have a communication error. A communication error may result from cables being connected incorrectly or only one or no printers being turned on.



To fix a communication error, first, refer to the section **8-1-1 Getting AP-55 ready after opening package** on **page 14** again and make sure that all the units are connected correctly and turned on. Then, follow any one of the instructions **A** to **C** below that best fits your case.

A. If AP55 Multi.exe has been running while AP55.exe has yet to run, click **Update** to obtain the updated printer information. Note that the AP55 Multi.exe cannot recognize the printer where the error was fixed until you do so. Then, go back to the step **5** on **page 28** and select the appropriate printer serial numbers again for each AP-55 unit as explained. (If AP55.exe has also been running, you need to move on to and follow the instruction **C** below.)

***If you click Update while there are still some buttons for some AP-55 units that display “Run” instead of “Running”, AP55 Multi.exe clears the unit numbers assigned to such units and then assign them new numbers; be aware that the same unit number is not necessarily assigned to the unit to which it was assigned last time.**

CAUTION	**Failure to select the appropriate printer serial numbers for the AP-55 may cause the AP-55 and the P-55 to malfunction or damage to them.**

B. If a communication error was detected when more than one AP-55 unit was connected to your computer via more than one USB hub, try connecting the AP-55 units to your computer using just one USB hub. Then, exit and restart AP55 Multi.exe. After that, check whether the serial number of a printer that was displayed as “None” appears in the pull-down menu now.

CAUTION	**Closing the window AP55 Multi.exe stops all the AP-55 units from operating and cancels all the jobs requested. If you close the window by accident, restart all the units including the auto-loader unit, the printers, and your computer. Then, follow the instructions in the section 13-1 Matching AP-55 and P-55 for use of multiple units on page 26.**

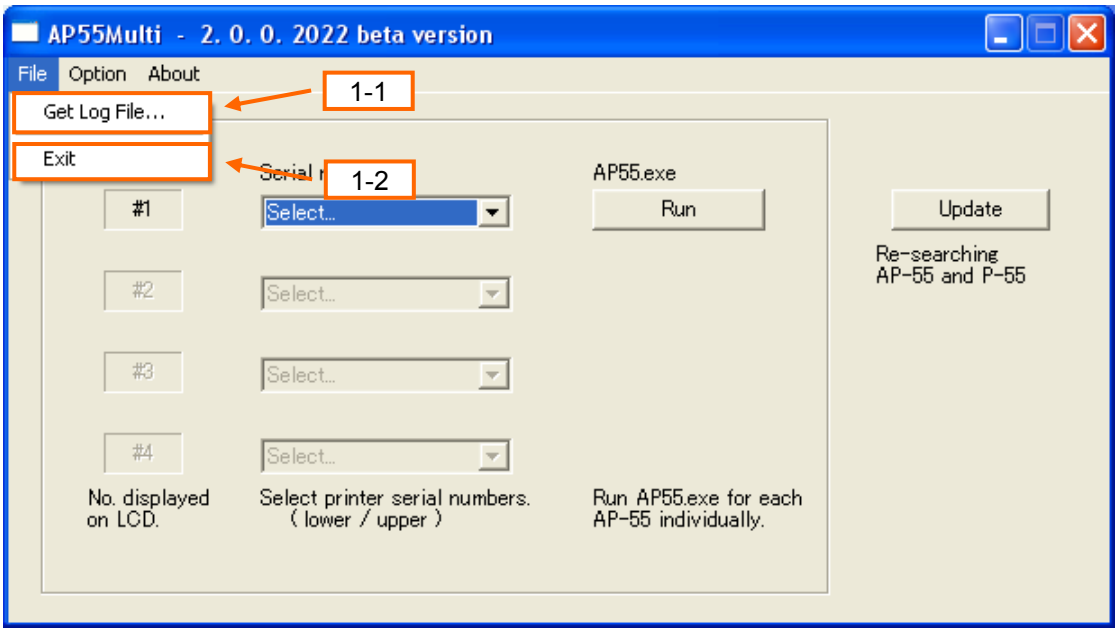
C. If a printer encountered a communication error after you started AP55.exe, restart the corresponding AP-55 unit and its installed printers and close the corresponding AP55.exe.
*Do not close any AP55.exe for units that have no error; otherwise, you need to match the AP-55 and the P-55 again.
After they have restarted, click **Update** in AP55 Multi.exe to obtain the updated printer information. Then, go back to the step **5** on **page 28** and select the appropriate printer serial numbers again for the corresponding AP-55 unit as explained.

***If you click Update while there are still some buttons for some AP-55 units that display “Run” instead of “Running”, AP55 Multi.exe clears the unit numbers assigned to such units and then assign them new numbers; be aware that the same unit number is not necessarily assigned to the unit to which it was assigned last time.**

If the error still persists, contact your local dealer/reseller.

13-3 Functions in AP55 Multi.exe selection window

1 File



1-1 Click **File** - **Get Log File**

AP55 Multi.exe allows you to obtain an error log when a communication error occurs between the P-55 and the host computer. (***Note1**)

- Please note that we may ask you to obtain a log if the AP-55 fails to recover from an error or if an unknown error occurs.

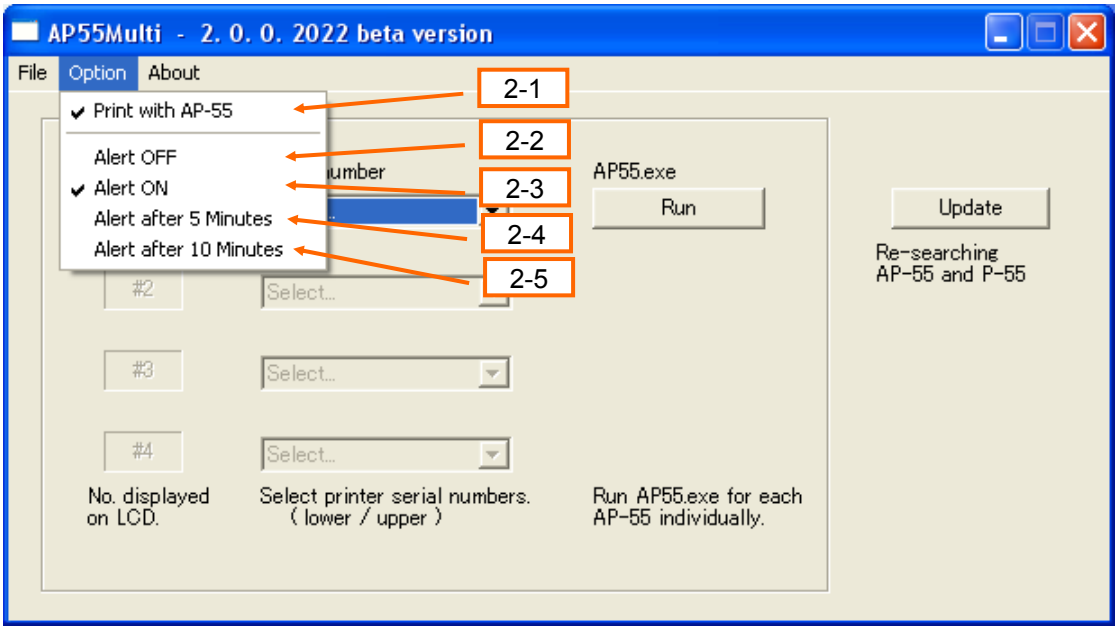
***Note1** For error analysis, we also ask you to obtain a log using the AP-55 software AP55.exe that controls the auto-loader unit where an error occurred. For detailed information about how to obtain an AP55.exe log, see **1-3** of the section **13-5 Functions in AP55.exe system monitor window** on **page 40**.

1-2 Click **File** - **Exit**

Exit AP55 Multi.exe.

CAUTION	**Closing the window AP55 Multi.exe stops all the AP-55 units from operating and cancels all the jobs requested. If you close the window by accident, restart all the units including the auto-loader unit, the printers, and your computer. Then, follow the instructions in the section 13-1 Matching AP-55 and P-55 for use of multiple units on page 26.**

2 Option



2-1 Click **Option** - **Print with AP-55**
Make sure that **a check mark appears next to "Print with AP-55"** as shown above.
***If the check mark is cleared, the AP-55 does not run.**
*With this checked, the "Maintenance" tab in "Printing Preferences" for the P-55 connected to the AP-55 is not displayed.

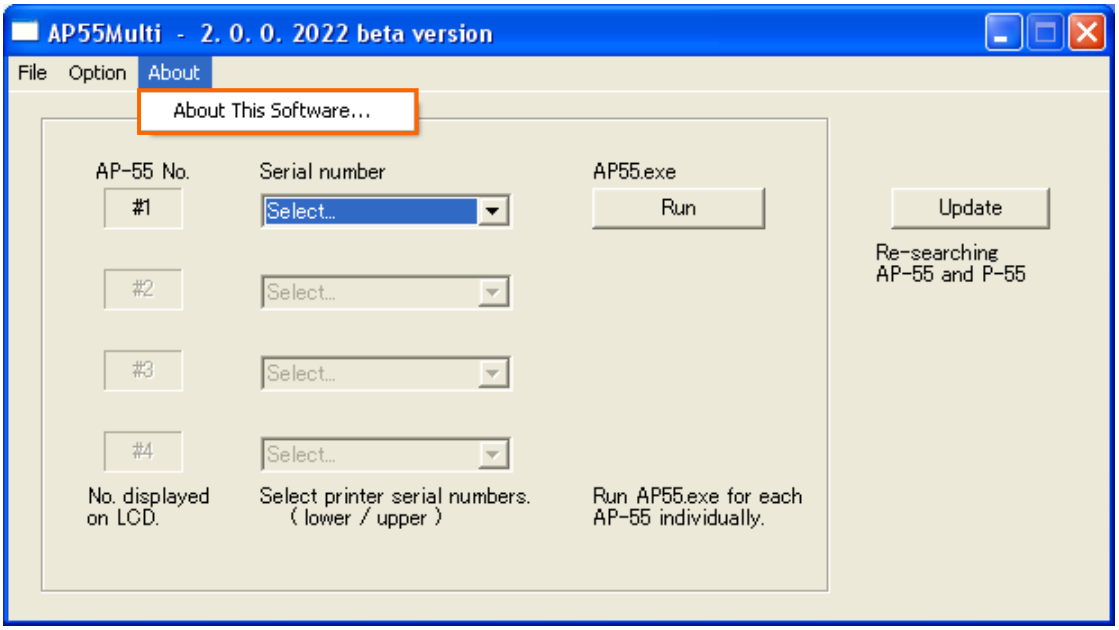
2-2 Click **Option** - **Alert OFF**
A check mark appears when this is selected. If you open the front door or remove a stacker with this checked, the AP-55 does not beep.
*The beep sound cannot be turned off if the "loader stall" error occurs or the loader is not in the center position.

2-3 Click **Option** - **Alert ON**
This setting is selected at the factory. A check mark appears when this is selected. If you open the front door or remove a stacker with this checked, the AP-55 starts beeping.

2-4 Click **Option** - **Alert after 5 Minutes**
A check mark appears when this is selected. With this checked, the AP-55 starts beeping five minutes after the front door is opened or a stacker is removed.

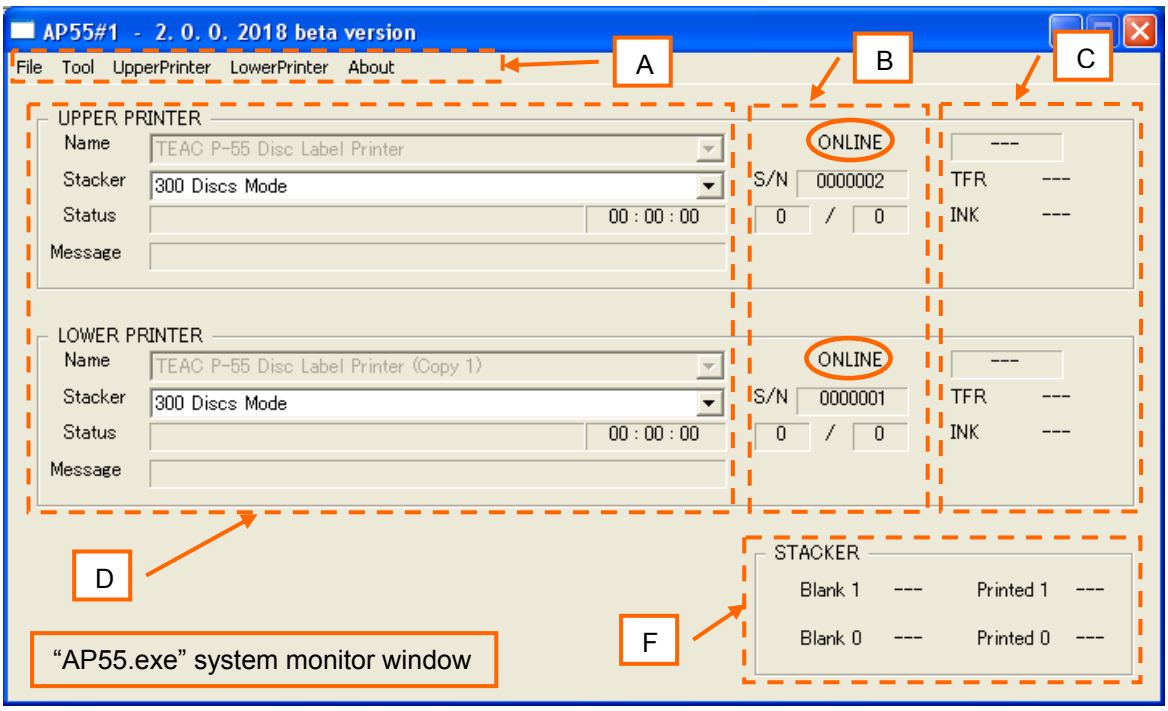
2-5 Click **Option** - **Alert after 10 Minutes**
A check mark appears when this is selected. With this checked, the AP-55 starts beeping ten minutes after the front door is opened or a stacker is removed.

3 Click **Help** - **About This Software…**
Display the version of the AP-55 software AP55 Multi.exe.



13-4 Selecting stacker mode

1. When you run AP55.exe as explained in the section **13-1 Matching AP-55 and P-55 for use of multiple units** on **page 26**, the software starts performing a search for the auto-loader unit that is assigned the unit number "#X" shown at the top left-hand corner of its system monitor window. If the AP-55 is configured correctly, the message "ONLINE" appears, as shown in the area circled in the image below, after the search is complete.
   *Refer to the section **13-5 Functions in AP55.exe system monitor window** on **page 40** for detailed information about [A], to [E] below.

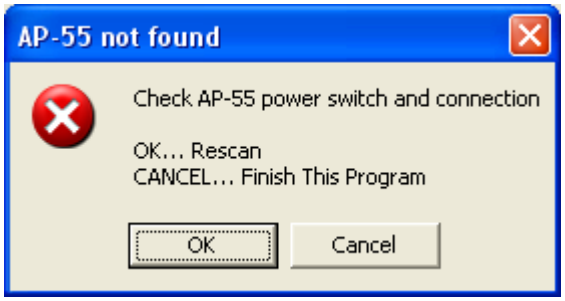


Fixing USB cable connection error or power related error

If any of the following AP-55 system errors occurs, follow the instructions below.

- If an error occurs in a printer installed in one of the AP-55 units you use, the corresponding AP-55 system monitor window displays the message "PRINTER OFFLINE" as shown below.

- If a loader error is detected in one of the AP-55 units you use, the following message appears on the top of the corresponding AP-55 system monitor window.



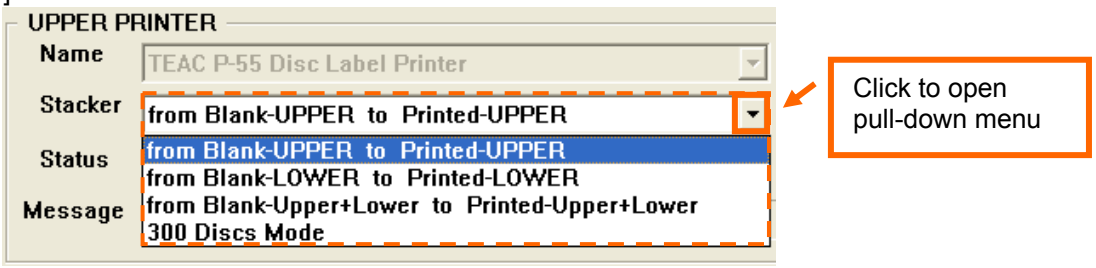
Click **Cancel** to exit the AP55.exe.
Then, check all the cable connections between the AP-55, the P-55, and your computer to make sure that they are all connected correctly. You also need to check the power switches on the printers to make sure that they are all set to the ON position.

After you have fixed the error, click **Update** in AP55 Multi.exe to obtain the updated printer information. Then, go back to the step **5** on **page 28** and select the appropriate printer serial numbers again for the corresponding AP-55 unit as explained.

2. In the AP-55 system monitor window, select a stacker mode from the pull-down menu for the upper and lower printers each, if both are connected, as shown in **Fig. 11** and **Fig. 12** below.
*Be sure to create data using Disc Label Editor that you use to print before selecting a stacker mode. For detailed information about how to use Disc Label Editor, see the manual; in Windows, click **Start**, point to **All Programs**, **TEAC(C)**, and click **Disc Label Editor Program Manual**.

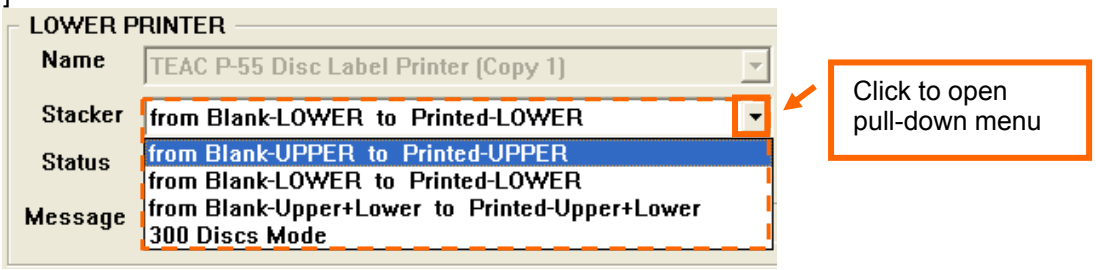
[Upper printer]

Fig. 11



[Lower printer]

Fig. 12



For detailed information about stacker modes, see the sections below.
-**Page 37**: Stacker normal mode: [from Blank-UPPER to Printed-UPPER]/[from Blank–LOWER to Printed-LOWER]
-**Page 38**: Stacker normal mode: [from Blank-Upper + Lower to Printed-Upper + Lower]
-**Page 39**: Stacker optional mode: [300 Discs Mode]

Important note on selecting printers

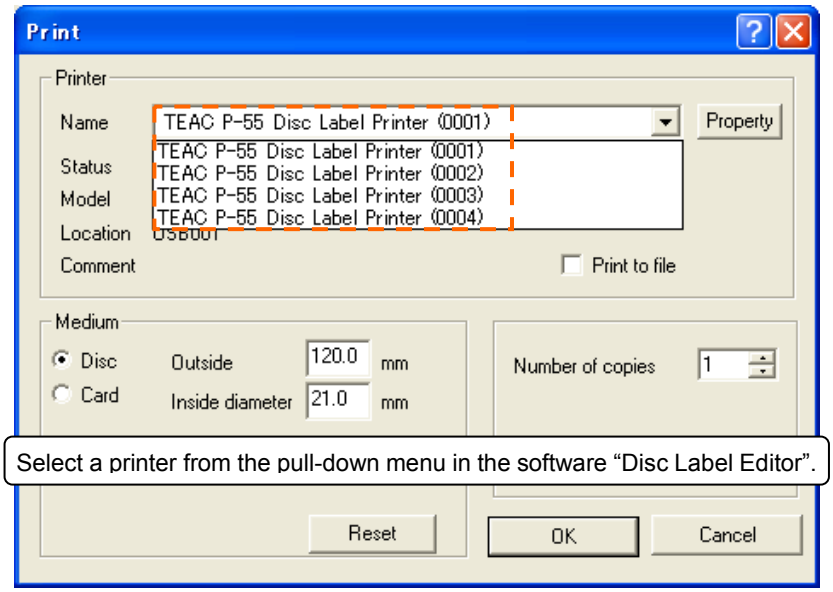
When you use the AP-55 software to operate multiple AP-55 units, you still need to specify the printers you want to use using Disc Label Editor. (***Note1**) To do so, first run in parallel as many Disc Label Editor programs as AP55.exe programs that are running. In each Disc Label Editor window, select **Print** from File(F) menu and select the printer you want to use from the pull-down menu as shown in **Fig. 13** below.

***Note1** The pull-down menu displays all the printers installed in the AP-55 units that are running, as shown in the area surrounded by the dotted lines below. Make sure that the P-55 unit you want to use is selected for the image you want to print.

We recommend that you rename those installed printers by adding the serial number of each printer to its printer name.

e.g. [TEAC P-55 Disc Label Printer (0001)], [TEAC P-55 Disc Label Printer (0002)...
[TEAC P-55 Disc Label Printer (0008)]

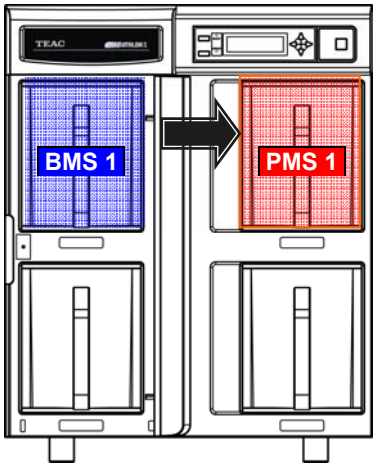
Fig. 13



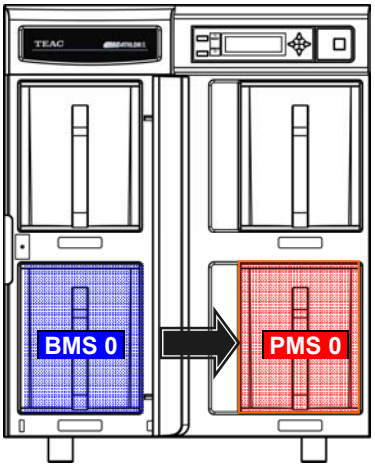
13-4-1 Stacker normal mode: [from Blank-UPPER to Printed-UPPER]/[from Blank–LOWER to Printed-LOWER]

These two modes are suitable for printing different images on discs using the upper and lower printers separately or printing the same single image on up to 200 discs using the upper and lower printers together. Select the following stacker modes from the stacker pull-down menu in the AP-55 system monitor window for the upper and lower printers, as shown in **Fig. 11** and **Fig. 12** on **page 36**.
*** For detailed information, see the chapter 14 Details on AP-55 Stacker Mode on page 48.**

- For UPPER PRINTER, select [from Blank-UPPER to Printed-UPPER].
  This mode allows the auto-loader unit to take out blank, unprinted discs from the stacker in “BMS 1” and to convey printed discs to the stacker in “PMS 1” as shown below.



- For LOWER PRINTER, select [from Blank–LOWER to Printed-LOWER].
  This mode allows the auto-loader unit to take out unprinted blank discs from the stacker in “BMS 0” and to convey printed discs to the stacker in “PMS 0” as shown below.



1) Run two Disc Label Editor programs in parallel.
2) Set “image A” in one of the programs and “image B” in the other.
3) In the programs each, select **Print** from the File menu to display the dialog shown in **Fig. 13** on **page 36** and select the printers you want to print for the images each.

e.g.

- Select **TEAC P-55 Disc Label Printer (0001)** for “image A” in “Disc Label Editor #1”.
  * If you follow the printer installation procedures as explained in this manual, this should be the upper printer.
- Select **TEAC P-55 Disc Label Printer (0002)** for “image B” in “Disc Label Editor #2”.
  * If you follow the printer installation procedures as explained in this manual, this should be the lower printer.

4) Click **OK** on the dialog shown in **Fig. 13** on **page 36** for each Disc Label Editor.
5) The auto-loader unit starts taking out a disc from the stacker in “BMS 1,” and conveys the printed disc to the stacker in “PMS 1” after the image A is printed.
6) The auto-loader unit also starts taking out a disc from the stacker in “BMS 0,” and conveys the printed disc to the stacker in “PMS 0” after the image B is printed.

* Printers in the upper and lower portions of the AP-55 can also be used individually, not in parallel.
* The AP-55 system performs the operations in 5) and 6) in proper sequence.

13-4-2 Stacker normal mode: [from Blank-Upper + Lower to Printed-Upper + Lower]

This mode is suitable for printing the same single image in bulk (on 300 or more discs) using the upper and lower printers. Select the following stacker mode from the stacker pull-down menu in the AP-55 system monitor window for the upper and lower printers, as shown in **Fig. 11** and **Fig. 12** on **page 36**.
*** For detailed information, see the chapter 14 Details on AP-55 Stacker Mode on page 48.**

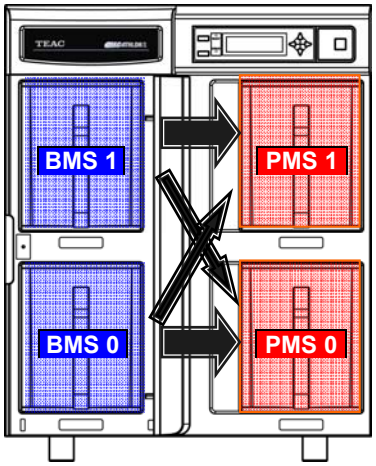
- For UPPER PRINTER, select [from Blank-Upper + Lower to Printed-Upper + Lower].
  * When this mode is selected for the upper printer, it is automatically set to the lower printer as well.
  This mode allows the auto-loader unit to continue to take out unprinted blank discs from the stacker in “BMS 0” or the stacker in “BMS 1” until the stackers become empty and to continue to convey printed discs to the stacker in “PMS 0” or the stacker in “PMS 1” until the stackers become full as shown below.
- Run two Disc Label Editor programs in parallel to use the upper and lower P-55 printers.
  *Select the upper printer in one Disc Label Editor program and the lower printer in the other Disc Label Editor program on each Print dialog, as shown in **Fig. 13** on **page 36**.
- Set the same single image to print discs in this mode.
  *If you print different images on discs, the printed discs are mixed in the printed stackers.

e.g.
- Select **TEAC P-55 Disc Label Printer (0003)** for “image C” in “Disc Label Editor #3”.
  * If you follow the printer installation procedures as explained in this manual, this should be the upper printer.
- Select **TEAC P-55 Disc Label Printer (0004)** for “image C” in “Disc Label Editor #4”.
  * If you follow the printer installation procedures as explained in this manual, this should be the lower printer.

- Enter an equal number in the “Number of copies” field on the Print dialog that can appear in the two Disc Label Editor programs each before starting print operations.
  *Printers in the upper and lower portions of the AP-55 can also be used individually, not in parallel.

*Place unprinted blank discs in the stackers in “BMS 0” and/or “BMS 1” when the stackers in those trays become empty; if the print request is not finished yet, the AP-55 system continues to operate.

*Remove printed discs from the stackers in “PMS 0” and/or “PMS 1” when the stackers in those trays become full; if the print request is not finished yet, the AP-55 system continues to operate.



13-4-3 Stacker optional mode: [300 Discs Mode]

This mode is suitable for printing the same single image on 201-300 discs without human intervention during operation; this mode saves your work for installation or removal of discs from stackers.
Select the following stacker mode from the stacker pull-down menu in the AP-55 system monitor window for the upper and lower printers, as shown in **Fig. 11** and **Fig. 12** on **page 36**.
*** For detailed information, see the chapter 14 Details on AP-55 Stacker Mode on page 48.**

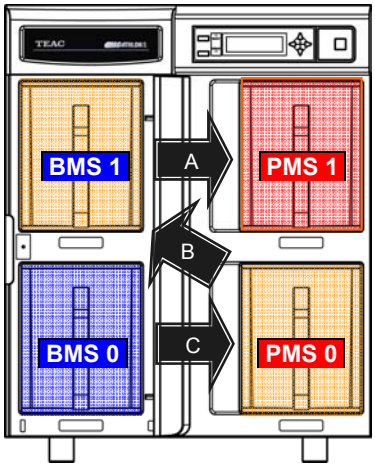
- For UPPER PRINTER, select [300 Discs Mode].
  * This mode is automatically set to the lower printer as well when it is selected for the upper printer.

1) Place unprinted blank discs in stackers in “BMS 0”, “BMS 1”, and “PMS 0”.
2) Insert an empty stacker into “PMS 1”.
3) The auto-loader unit takes out unprinted blank discs one by one from the stacker in “BMS 1” first until the stacker in “BMS 1” becomes empty and conveys printed discs one by one to the stacker in “PMS 1” until the stacker in “PMS 1” becomes full, as shown by the arrow A in the image below.
4) The auto-loader unit, then, takes out unprinted blank discs one by one from the stacker in “PMS 0” until the stacker in “PMS 0” becomes empty and conveys printed discs one by one to the stacker in “BMS 1” until the stacker in “BMS 1” becomes full, as shown by the arrow B in the image below.
5) Finally, the auto-loader unit takes out unprinted blank discs one by one from the stacker in “BMS 0” until the stacker in “BMS 0” becomes empty and conveys printed discs one by one to the stacker in “PMS 0” until the stacker in “PMS 0” becomes full, as shown by the arrow C in the image below.
6) The operation is complete when the stacker in “BMS 0” becomes empty or the stacker in “PMS 0” becomes full.

- Run two Disc Label Editor programs in parallel to use the upper and lower P-55 printers.
  *Select the upper printer in one Disc Label Editor program and the lower printer in the other Disc Label Editor program on each Print dialog, as shown in **Fig. 13** on **page 36**.
- Set the same single image to print discs in this mode.
  *If you print different images on discs, the printed discs are mixed in the printed stackers.

e.g.
- Select **TEAC P-55 Disc Label Printer (0005)** for “image D” in “Disc Label Editor #5”.
  * If you follow the printer installation procedures as explained in this manual, this should be the upper printer.
- Select **TEAC P-55 Disc Label Printer (0006)** for “image D” in “Disc Label Editor #6”.
  * If you follow the printer installation procedures as explained in this manual, this should be the lower printer.

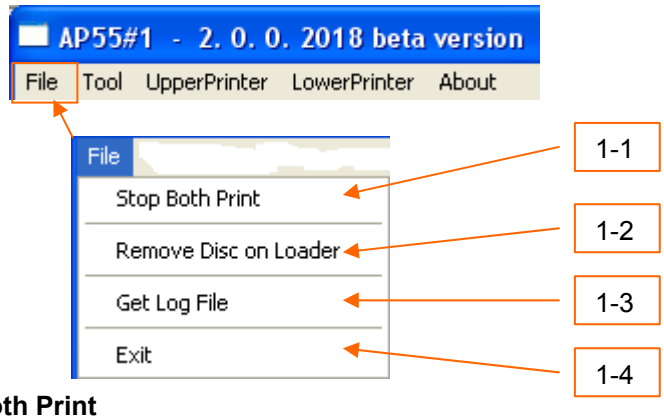
- Enter an equal number in the “Number of copies” field on the Print dialog that can appear in the two Disc Label Editor programs each before starting print operations.
  *Printers in the upper and lower portions of the AP-55 can also be used individually, not in parallel.



13-5 Functions in AP55.exe system monitor window

- Area [A] surrounded by dotted lines in the AP-55 system monitor window shown on **page 35**

1 [File]



1-1 Click **File** - **Stop Both Print**

Cancel all requests made to printers.

- If data are being printed to the transfer ribbons, requests made are canceled only after the printers finish printing to the transfer ribbons.
- If data are being printed to discs, the printer trays are closed and requests made are canceled, only after the printers finish printing to the discs. (***Note1**)
- The loader is brought to a stop immediately and does not operate until a next print request is made.
- The disc that is being chucked by each loader goes to the prescribed stacker when a next print request is made. (***Note2**)

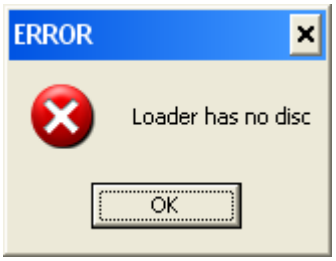
***Note1** When a next print request is made, the discs in the printer trays are conveyed to the printed stackers where they are supposed to go.

***Note2** If an unprinted blank disc is being chucked by the loader, it is returned to the stacker where it was originally placed when a next print request is made.
If a printed disc is being chucked, it is conveyed to the stacker where it is supposed to go when a next print request is made.

1-2 Click **File** - **Remove Disc on Loader**

Remove the disc from the loader.

- If the loader and each printer are in standby state, this request can be processed.
- If this request is made while the loader holds no disc, the following error message is displayed. (To clear the message, click **OK**.)



1-3 Click **File** - **Get Log File**

AP55.exe allows you to obtain an error log when an error occurs in the AP-55 and a communication error occurs between the AP-55 and the host computer. (***Note3**)

- Please note that we may ask you to obtain a log if the unit fails to recover from an error or if an unknown error occurs. We also ask you to specify the serial number assigned to the auto-loader unit when we ask you for a log.

***Note3** You are unable to obtain a printer error log from AP55.exe. To learn how to obtain a printer error log, see the P-55 instruction manual.

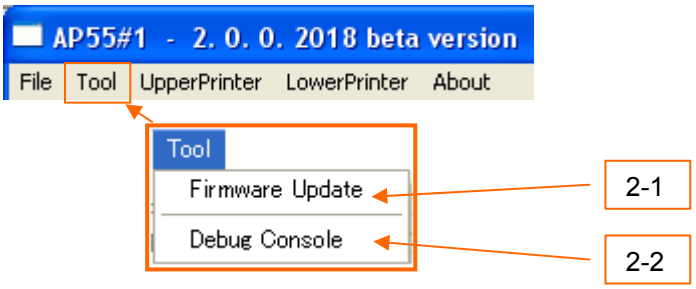
1-4 Click **File** - **Exit**

Exit AP55.exe

- If data are being printed to the transfer ribbons, the software terminates only after the printers finish printing to the transfer ribbons.
- If data are being printed to discs, the printer trays are closed and the software terminates, only after the printers finish printing to the discs. (***Note4**)
- The loaders are brought to a stop immediately and do not operate until a next print request is made.
- If a disc, unprinted or printed, is being chucked by each loader, it is conveyed to the printed stacker that you select when making a next print request.

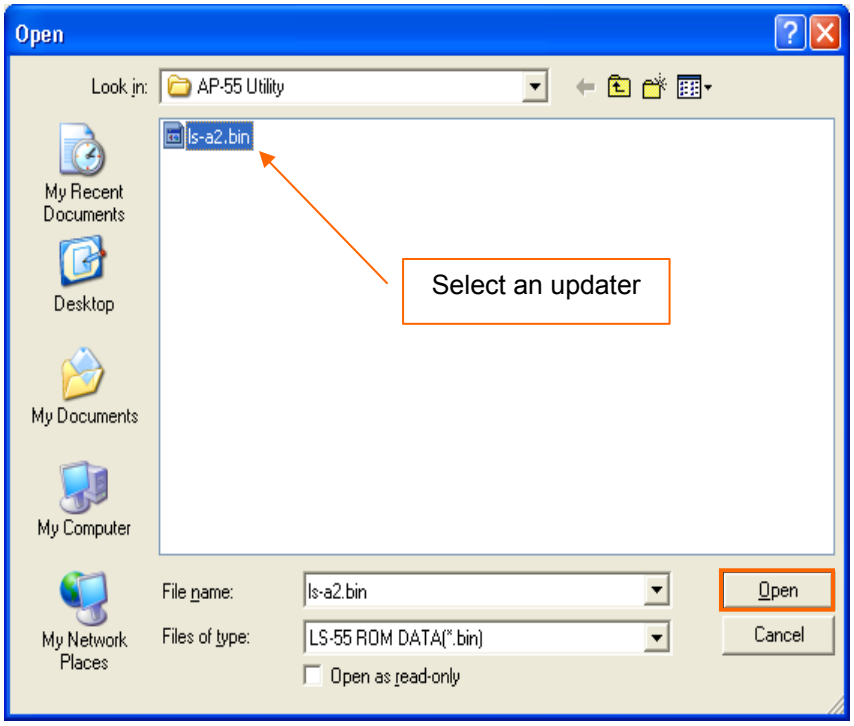
***Note4** The discs in the printer trays are conveyed to the printed stackers that you select when making a next print request.

2 [Tool]

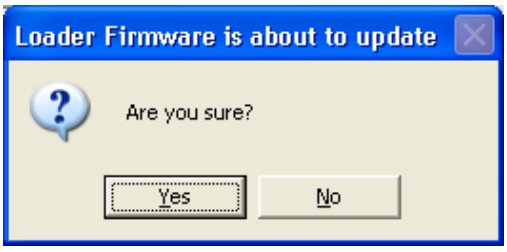


2-1 Click **Tool** - **Firmware Update**
Used for the firmware update of the auto-loader unit.

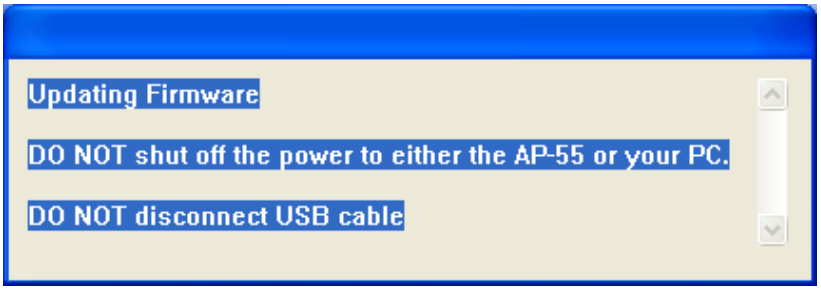
1) Click **Firmware Update** and specify the folder where the updater is kept.
2) Select the updater that you want to use and click **Open**.



3) The following message appears on the screen. Click **Yes**.

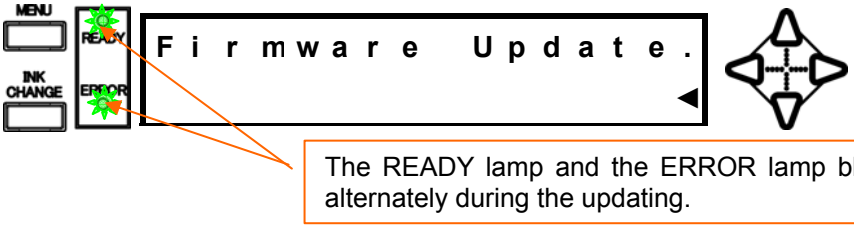


4) The following message is displayed during the updating.

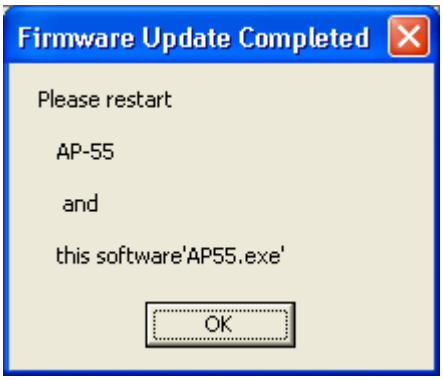


Go to the next page
↓

5) The following message is also displayed on the AP-55 during the updating.



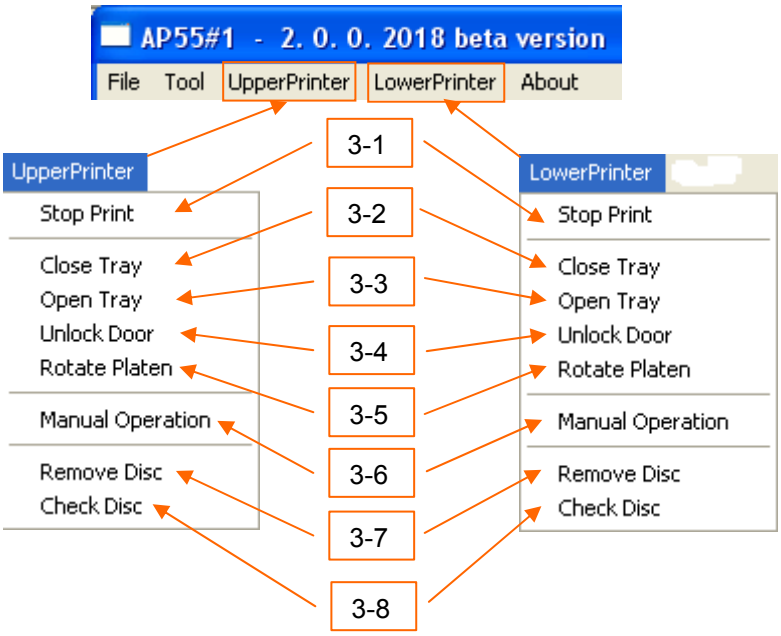
6) The following message is displayed after the updating is complete.



7) Press the “O” side and then “|” side of the main power switch on the rear of the auto-loader unit and press the STAND-BY/ON switch to restart the AP-55. Exit and run the AP-55 software again, too.

2-2 Click **Tool** - **Debug Console**
The function is normally unavailable.

3 Click **UpperPrinter** / **LowerPrinter**



3-1 Click **UpperPrinter** / **LowerPrinter** - **Stop Print**
Cancel all requests to the upper/lower printer.
- If an image is being printed to the transfer ribbon, requests made are canceled only after the printer finishes printing to the transfer ribbon.
- If an image is being printed to a disc, the printer tray is closed and requests made are canceled, only after the printer finishes printing to the disc.
- The message “Stop printing by receiving Stop signal” is displayed after requests are cancelled.

*The printer is activated again when receiving a new print request.

3-2 Click **UpperPrinter** / **LowerPrinter** - **Close Tray**
Close the tray in the upper/lower printer only while Manual Operation in **3-6** is selected.
*The function is normally disabled. (not selectable)
*If the AP-55 system is in print operation, this function is unavailable.

3-3 Click **UpperPrinter** / **LowerPrinter** - **Open Tray**
Open the tray in the upper/lower printer only while Manual Operation shown in **3-6** is selected.
*The function is normally disabled. (not selectable)
*If the AP-55 system is in print operation, this function is unavailable.

3-4 Click **UpperPrinter** / **LowerPrinter** - **Unlock Door**
Unlock the side door on the upper/lower printer.
*If the AP-55 system is in print operation, this function is unavailable
*The side door remains unlocked for approx. 15 seconds. Open the side door for the meantime.
*The side door is automatically locked in approx. 15 seconds. To unlock the door again, click **Unlock Door** again.

3-5 Click **UpperPrinter** / **LowerPrinter** - **Rotate Platen**
Rotate the platen roller in the upper/lower printer. (Use this function to clean the platen roller.)
*For details, see the chapter **16 Maintenance** on **page 55**.
*If the AP-55 system is in print operation, this function is unavailable.

3-6 Click **UpperPrinter** / **LowerPrinter** - **Manual Operation**
Activate the function Close/Open Tray for the upper/lower printer.
*If the AP-55 system is in print operation, this function is unavailable.

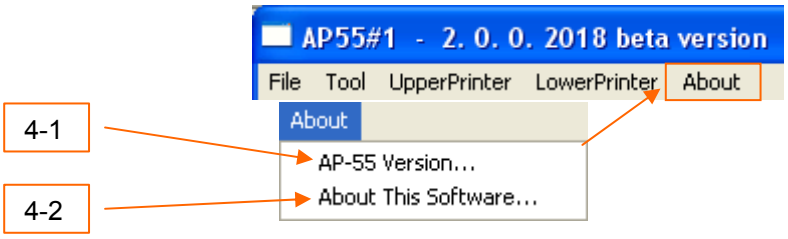
3-7 Click **UpperPrinter** / **LowerPrinter** - **Remove Disc**
Remove the disc from the upper/lower printer.
- The disc in the upper printer is conveyed to the stacker in “PMS 1" while the disc in the lower printer is conveyed to the stacker in “PMS 0”.
- If the loader holds a disc, it conveys the disc to the stacker in “PMS 1”.

*If the AP-55 system is in print operation, this function is unavailable.

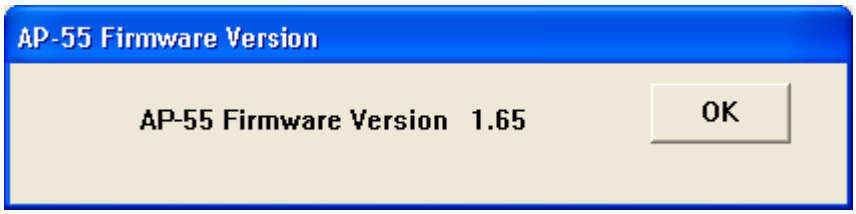
3-8 Click **UpperPrinter** / **LowerPrinter** - **Check Disc**
Check if there is a disc in the upper/lower printer.
- The result is displayed as shown in the area C surrounded by dotted lines in “AP-55 system monitor window” on **page 35**.

*If the AP-55 system is in print operation, this function is unavailable.

4 Click **About**

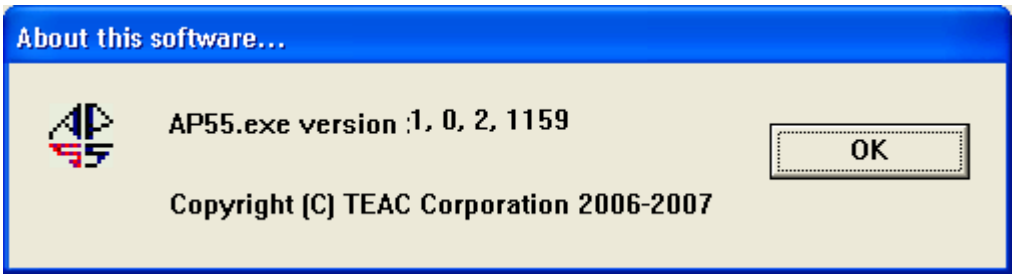


4-1 Click **About** - **AP-55 Version…**
Display the AP-55 firmware version as shown below.



To close the window, click **OK**.

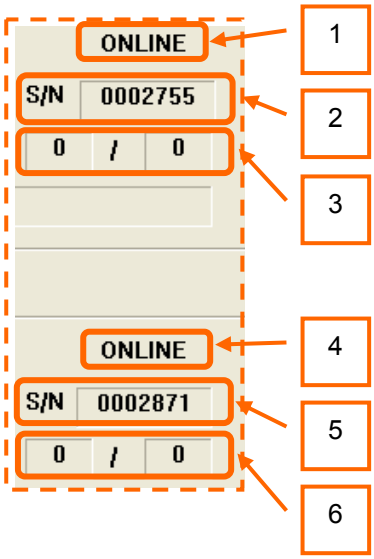
4-2 Click **About** - **About This Software…**
Display the version of AP55.exe as shown below.



To close the window, click **OK**.

- Area [B] surrounded by dotted lines in the AP-55 system monitor window shown on **page 35**

Note that the information about the upper printer is displayed on the upper area of the window and the information about the lower printer is displayed on the lower area as shown below.



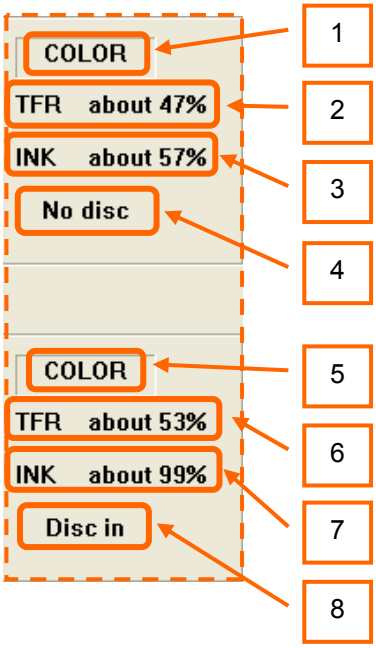
1 / 4: Printer connection state
[OFFLINE/ONLINE]
- Display the status of the upper or lower printer connection.
- Switch to "Online" if no connection error occurs after the AP-55 system is started.

2 / 5: Printer serial number
[S/N *******]
Display the serial number for the upper or lower printer.

3 / 6: Number of discs printed
[* / *]
Display the number of discs that have been printed ("n") and the total number of discs requested to print ("N") on the upper or lower printer, separated by a slash "/". (e.g. n / N)

- Area [C] surrounded by dotted lines in the AP-55 system monitor window shown on page **35**

Note that the information about the upper printer is displayed on the upper area and the information about the lower printer is displayed on the lower area as shown in the image on the left.



1 / 5: Ink ribbon type
[Color/Color(+P)/Photo/Monochrome]
Display the type of ink ribbon installed in the upper or lower printer.

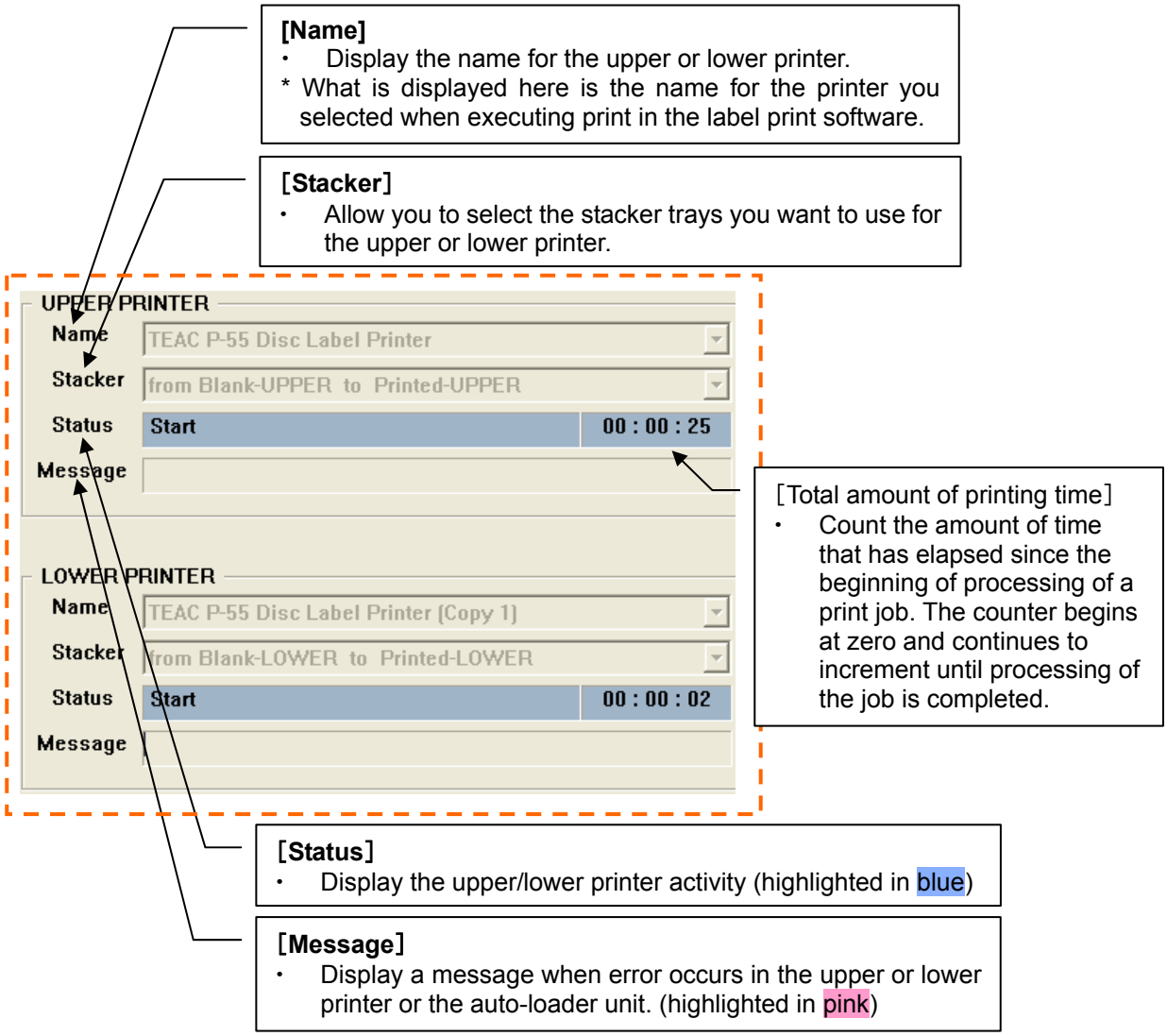
2 / 6: Remaining level of transfer ribbon
[TFR]
Display the remaining level of the transfer ribbon for the upper or lower printer. (***Note1**)

3 / 7: Remaining level of ink ribbon
[INK]
Display the remaining level of the ink ribbon for the upper or lower printer. (***Note1**)

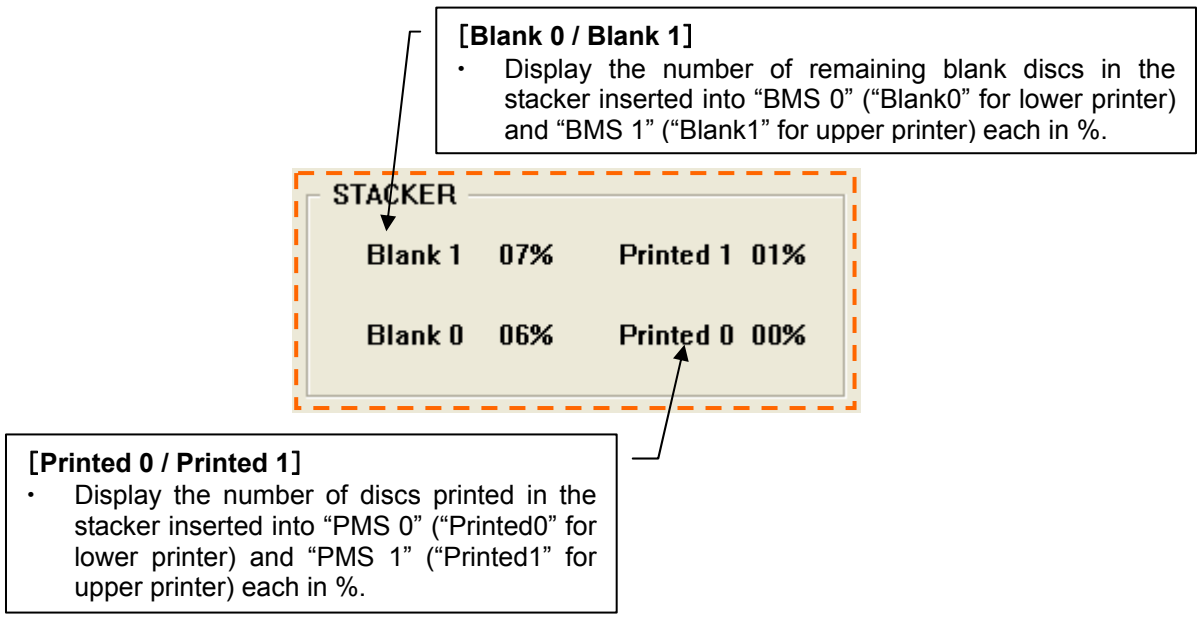
***Note1**
- Expressed as a percentage
- Values displayed may not be precise. Use for reference purposes only.
- "---" appears in the field if no single print operation is performed after the AP-55 is turned on.

4 / 8: Presence or absence of disc
[Disc in/No disc]
Show whether or not there is any disc in the upper or lower printer.

- Area [D] surrounded by dotted lines in the AP-55 system monitor window shown on **page 35**

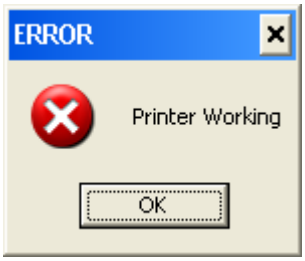

[Name]
• Display the name for the upper or lower printer.
* What is displayed here is the name for the printer you selected when executing print in the label print software.
[Stacker]
• Allow you to select the stacker trays you want to use for the upper or lower printer.
UPPER PRINTER
Name
TEAC P-55 Disc Label Printer
Stacker
from Blank-UPPER to Printed-UPPER
Status
Start
00 : 00 : 25
Message
LOWER PRINTER
Name
TEAC P-55 Disc Label Printer (Copy 1)
Stacker
from Blank-LOWER to Printed-LOWER
Status
Start
00 : 00 : 02
Message
[Total amount of printing time]
• Count the amount of time that has elapsed since the beginning of processing of a print job. The counter begins at zero and continues to increment until processing of the job is completed.
[Status]
• Display the upper/lower printer activity (highlighted in blue)
[Message]
• Display a message when error occurs in the upper or lower printer or the auto-loader unit. (highlighted in pink)

- Area [E] surrounded by dotted lines in the AP-55 system monitor window shown on page **35**

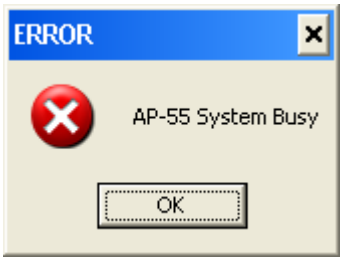

[Blank 0 / Blank 1]
• Display the number of remaining blank discs in the stacker inserted into “BMS 0” (“Blank0” for lower printer) and “BMS 1” (“Blank1” for upper printer) each in %.
STACKER
Blank 1 07%
Printed 1 01%
Blank 0 06%
Printed 0 00%
[Printed 0 / Printed 1]
• Display the number of discs printed in the stacker inserted into “PMS 0” (“Printed0” for lower printer) and “PMS 1” (“Printed1” for upper printer) each in %.

- Possible error messages being displayed when using the AP-55 system monitor window shown on **page 35**

-The following message is displayed if, while the printer is in operation, you click **File** and select **Remove Disc on Loader**, or click **UpperPrinter** or **LowerPrinter** and select **Remove Disc**.
(To close the window, click **OK**.)



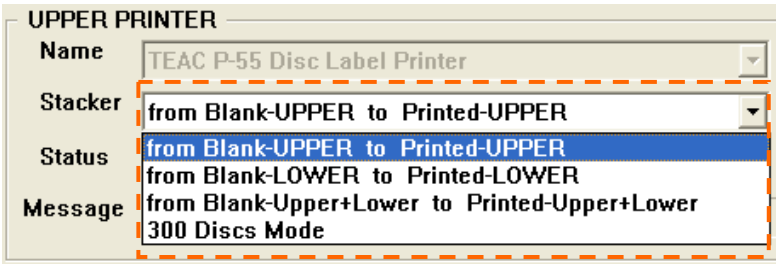
-The following message is displayed if you click **File** and select **Remove Disc on Loader** while the loader is moving or while **Manual Operation** under the menu UpperPrinter or LowerPrinter is selected.
(To close the window, click **OK**.)



14 Details on AP-55 Stacker Mode

14-1 Using AP-55 stacker mode

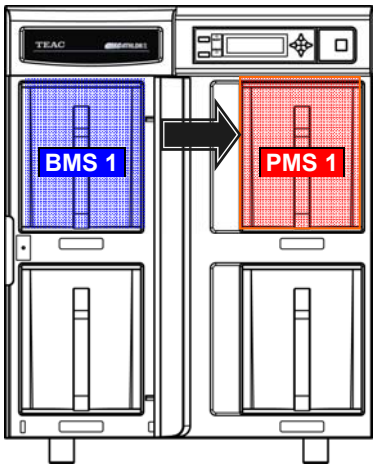
1. Select the stacker mode you want to use from the stacker pull-down menu in the AP-55 system monitor window for each printer.



* The stacker mode “from Blank-UPPER to Printed-UPPER” is selected for the upper printer in the above example.

- Operation flow for [from Blank-UPPER to Printed-UPPER]

1) The AP-55 system detects the state of each stacker when a print operation is started.
   * If the stacker in “BMS 1” has no disc, the message “Stacker empty” is displayed in the system monitor window. The message remains displayed until a disc is placed in the empty stacker in “BMS 1”.
   * If the stacker in “PMS 1” is full of discs, the message “Stacker full” is displayed in the system monitor window. The message remains displayed until the discs are removed from the stacker in “PMS 1”.

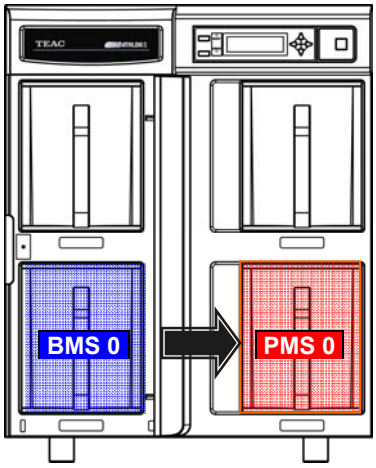


2) The auto-loader unit takes out an unprinted blank disc from the stacker in “BMS 1”.
3) The auto-loader unit places the disc in the upper printer tray.
4) The upper printer starts and finishes printing the disc.
5) The auto-loader unit removes the printed disc from the upper printer tray.
6) The auto-loader unit conveys the printed disc to the stacker in “PMS 1”.
7) The auto-loader unit and upper printer repeat the steps 2) to 6) until the stacker in “BMS 1” becomes empty or the stacker “PMS 1” becomes full.
   * The message “Stacker empty” is displayed in the system monitor window when the AP-55 system detects that there are no discs in the stacker in “BMS 1”.
   * The message “Stacker full” is displayed in the system monitor window when the AP-55 system detects that the stacker in “PMS 1” is full.
8) The AP-55 remains in standby state until discs are inserted into or removed from the stackers in the appropriate trays.

14 Details on AP-55 Stacker Mode

- Operation flow for [from Blank-LOWER to Printed-LOWER]

1) The AP-55 system detects the state of each stacker when a print operation is started.
   * If the stacker in “BMS 0” has no disc, the message “Stacker empty” is displayed in the system monitor window. The message remains displayed until discs are placed in the stacker in “BMS 0”.
   * If the stacker in “PMS 0” is full of discs, the message “Stacker full” is displayed in the system monitor window. The message remains displayed until the discs are removed from the stacker in “PMS 0”.

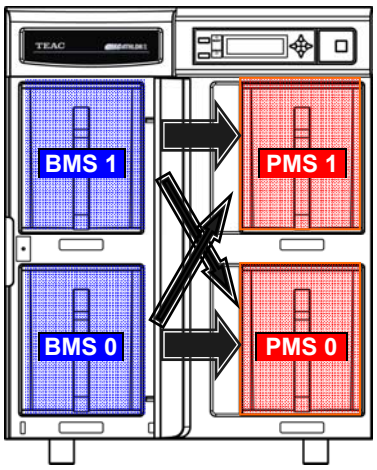


2) The auto-loader unit takes out an unprinted blank disc from the stacker in “BMS 0”.
3) The auto-loader unit places the disc in the lower printer tray.
4) The lower printer starts and finishes printing the disc.
5) The auto-loader unit removes the printed disc from the lower printer tray.
6) The auto-loader unit conveys the printed disc to the stacker in “PMS 0”.
7) The auto-loader unit and lower printer repeat the steps 2) to 6) until the stacker in “BMS 0” becomes empty or the stacker “PMS 0” becomes full.
   * The message “Stacker empty” is displayed in the system monitor window when the AP-55 system detects that there are no discs in the stacker in “BMS 0”.
   * The message “Stacker full” is displayed in the system monitor window when the AP-55 system detects that the stacker in “PMS 0” is full.
8) The AP-55 remains in standby state until discs are inserted into or removed from the stackers in the appropriate trays.

14 Details on AP-55 Stacker Mode

- Operation flow for [from Blank-Upper + Lower to Printed-Upper + Lower]

1) The AP-55 system detects the state of each stacker when a print operation is started.
   * If the stacker in “BMS 1” and/or “BMS 0” has no disc, the message “Stacker empty” is displayed in the system monitor window.
     The message remains displayed until a disc is placed in the empty stacker in “BMS 1” and/or “BMS 0”.
   * If the stackers in “PMS 1” and/or “PMS 0” are full of discs, the message “Stacker full” is displayed in the system monitor window.
     The message remains displayed until the discs are removed from the stackers in “PMS 1” and/or “PMS 0”.



   - Run two Disc Label Editor programs in parallel to use the two printers (upper and lower printers).
   - Use the same single image to print discs. (*If you print different images on discs, the printed discs are mixed in the printed stackers.)
   - Enter an equal number in the “Number of copies” field on the Print dialog in the two running Disc label Editor programs each before starting print operations.

2) The auto-loader unit takes out an unprinted blank disc from the stacker in “BMS 1”.
3) The auto-loader unit places the disc in the lower or upper printer tray.
4) The upper or lower printer starts and finishes printing the disc.
5) The auto-loader unit removes the printed disc from the upper or lower printer tray.
6) The auto-loader unit conveys the printed disc to the stacker in “PMS 1”.
7) The auto-loader unit and upper/lower printer repeat the steps 2) to 6) until the stacker in “BMS 1” becomes empty or the stacker “PMS 1” becomes full.
   * The message “Stacker empty” is displayed in the system monitor window when the AP-55 system detects that there are no discs in the stacker in “BMS 1”.
   * The AP-55 system continues to perform the requested operations using discs in the stacker in “BMS 0” instead when it detects that there are no discs in the stacker in “BMS 1”.
   * The message “Stacker full” is displayed in the system monitor window when the AP-55 system detects that the stacker in “PMS 1” is full.
   * The AP-55 system continues to perform the requested operations using the stacker in “PMS 0” instead when it detects that the stacker in “PMS 1” is full.
8) The AP-55 system clears the message when discs are inserted into or removed from the stackers in the appropriate trays and continues to perform the operations you have specified.
9) The auto-loader unit takes out an unprinted blank disc from the stacker in “BMS 0”.
10) The auto-loader unit places the disc in the lower or upper printer tray.
11) The upper or lower printer starts and finishes printing the disc.
12) The auto-loader unit removes the printed disc from the upper or lower printer tray.
13) The auto-loader unit conveys the printed disc to the stacker in “PMS 0”.
14) The auto-loader unit and upper/lower printer repeat the steps 9) to 13) until the stacker in “BMS 0” becomes empty or the stacker “PMS 0” becomes full.
   * The message “Stacker empty” is displayed in the system monitor window when the AP-55 system detects that there are no discs in the stacker in “BMS 0”.
   * The AP-55 system continues to perform the requested operations using discs in the stacker in “BMS 1” instead when it detects that there are no discs in the stacker in “BMS 0”.
   * The message “Stacker full” is displayed in the system monitor window when the AP-55 system detects that the stacker in “PMS 0” is full.
   * The AP-55 system continues to perform the requested operations using the stacker in “PMS 1” instead when it detects that the stacker in “PMS 0” is full.
15) The AP-55 system clears the message when discs are inserted into or removed from the stackers in the appropriate trays and continues to perform the operations you have specified.

14 Details on AP-55 Stacker Mode

・ Operation flow for [300 Discs Mode]

● Stacker option mode (print 300 discs)
  * Place unprinted blank discs in stackers and insert those stackers into the trays “BMS 0”, ”BMS 1”, and ”PMS 0” each.
  * Insert an empty stacker into “PMS 1”.

[Before getting started]
- This is the mode that optimizes the stacker function; use this mode only to print exactly 300 discs.
- Run two Disc Label Editor programs in parallel to use both the upper and lower printers.
- Use the same single image to print discs.
  (*If you print different images on discs, the printed discs are mixed in the printed stackers.)
- Enter an equal number in the “Number of copies” field on the Print dialog that can appear in the two Disc Label Editor programs each before starting print operations.

The AP-55 system detects the state of each stacker when a print job is started.

* The message “Stacker empty” is displayed in the system monitor window when the AP-55 system detects that there are no discs in the stackers in “BMS 0” and/or “BMS 1”. The message remains displayed until a disc is placed in the empty stackers in the appropriate stacker trays.
* The message “Stacker full” is displayed in the system monitor window when the AP-55 system detects that the stackers in one or more stacker trays of “PMS 0”, “PMS 1”, and “BMS 1” are full. The message remains displayed until the discs are removed from the stackers in the appropriate stacker trays.

Operations are performed in alphabetical order as indicated by the arrows in the image below.

Operations for Arrow A

1) The auto-loader unit takes out an unprinted blank disc from the stacker in “BMS 1”.
2) The auto-loader unit places the disc in the upper or lower printer tray.
3) The upper or lower printer starts and finishes printing the disc.
4) The auto-loader unit takes out a printed disc from the upper or lower printer tray.
5) The auto-loader unit conveys a printed disc to the stacker in “PMS 1” if the stacker in “PMS 1” is not full.
6) The auto-loader unit and upper and lower printers repeat the steps 1) to 5) until the stacker in “BMS 1” becomes empty or the stacker “PMS 1” becomes full.

* The message “Stacker empty” is displayed in the system monitor window when the AP-55 system detects that there are no discs in the stacker in “BMS 1”.
* The message “Stacker full” is displayed in the system monitor window when the AP-55 system detects that the stacker in “PMS 1” is full.
- The AP-55 system continues to perform the requested job using discs in the stacker in “PMS 0” instead when it detects that there are no discs in the stacker in “BMS 1”.
- The AP-55 system continues to perform the requested job using the stacker in “BMS 1” instead when it detects that the stacker in “PMS 1” is full.

Operations for Arrow B

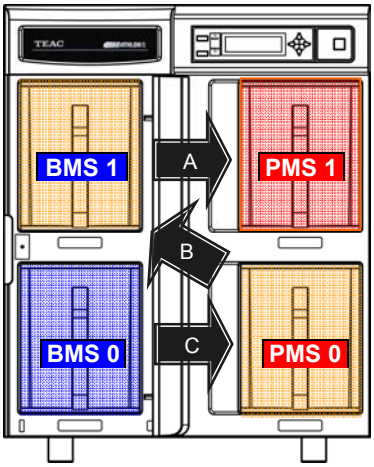
7) The auto-loader unit takes out an unprinted blank disc from the stacker in “PMS 0”.
8) The auto-loader unit places the disc in the upper or lower printer tray.
9) The upper or lower printer starts and finishes printing the disc.
10) The auto-loader unit takes out a printed disc from the upper or lower printer tray.
11) The auto-loader unit conveys a printed disc to the stacker in “BMS 1” if the stacker in “BMS 1” is not full.
12) The auto-loader unit and upper and lower printers repeat the steps 7) to 11) until the stacker in “PMS 0” becomes empty or the stacker “BMS 1” becomes full.

* The message “Stacker empty” is displayed in the system monitor window when the AP-55 system detects that there are no discs in the stacker in “PMS 0”.
* The message “Stacker full” is displayed in the system monitor window when the AP-55 system detects that the stacker in “BMS 1” is full.
- The AP-55 system continues to perform the requested job using discs in the stacker in “BMS 0” instead when it detects that there are no discs in the stacker in “PMS 0”.
- The AP-55 system continues to perform the requested job using the stacker in “PMS 0” instead when it detects the stacker in “BMS 1” is full.

Operations for Arrow C

13) The auto-loader unit takes out an unprinted blank disc from the stacker in “BMS 0”.
14) The auto-loader unit places the disc in the upper or lower printer tray.
15) The upper or lower printer starts and finishes printing the disc.
16) The auto-loader unit takes out a printed disc from the upper or lower printer tray.
17) The auto-loader unit conveys a printed disc to the stacker in “PMS 0” if the stacker in “PMS 0” is not full.
18) The auto-loader unit and upper and lower printers repeat the steps 13) to 17) until the stacker in “BMS 0” becomes empty or the stacker “PMS 0” becomes full.

* The message “Stacker empty” is displayed in the system monitor window when the AP-55 system detects that there are no discs in the stacker in “BMS 0”.
* The message “Stacker full” is displayed in the system monitor window when the AP-55 system detects that the stacker in “PMS 0” is full.
- The AP-55 system finishes operating when it detects that there are no discs in the stacker in “BMS 0”.



15 Error Chart

AP-55 system monitor window

* An error message is displayed in the field “Message” as shown above.

Error string (printer related)	Cause Solution
Print job canceled	User made a request for cancellation of a printer job. Execute the label print software again.
Printer error (0xXXXX)	Unknown printer error (shown with error code) Write down the error code displayed, turn off the AP-55 and each printer, and contact your local dealer/reseller.
Printer error	Printing has been stopped due to communication error between the printer and computer while the printer was in operation. Check connections of each cable or power switches and the related items to make sure that they are properly connected or set.
Cannot allocate memory	Insufficient PC memory Close programs you no longer need or restart your computer.
Cannot convert profile	Driver is damaged. Delete the printer driver and re-install it from P-55 Utility Software that comes with the P-55. For driver re-installation information, refer to the file “p55_manual_eng_**.pdf” in the folder “manual” that you can find in the P-55 Utility Software CD-ROM.
Wrong ribbon set	A. The types of ink and transfer ribbons do not match. Open the side door on the printer and check the color of ink and transfer ribbon shafts each. Make sure that the shafts for the ink and transfer ribbons installed are the same in color. - White shaft for photo ink - Black shaft for color ink B. Dirt is on the flange of the ink ribbon shaft. Open the side door on the printer and check the ink ribbon shaft. For cleaning information, refer to the file “p55_manual_eng_**.pdf” in the folder “manual” that you can find in the P-55 Utility Software CD-ROM. C. Ink or transfer ribbon cartridge is not installed in the printer. Open the side door on the printer and check the cartridges.
Tray overrun	The tray unit ran abnormally. Turn off the AP-55 and each printer and contact your local dealer/reseller.
Cover open	The side door on the printer is open. Close the side door on the printer.
No ink ribbon cartridge	Ink ribbon cartridge is not installed in the printer. Install the ink ribbon cartridge in the appropriate printer. For installation information, refer to the file “p55_manual_eng_**.pdf” in the folder “manual” that you can find in the P-55 Utility Software CD-ROM.
Ink ribbon end	Ink ribbon ran out or no ink ribbon is installed in the cartridge. Install a new or usable ink ribbon in the cartridge and put the cartridge in the printer. For installation information, refer to the file “p55_manual_eng_**.pdf” in the folder “manual” that you can find in the P-55 Utility Software CD-ROM.
Ink ribbon jam	Ink ribbon is jammed. Open the side door on the printer and rotate the lower take-up shaft clockwise to clear the ribbon jam. If the take-up shaft does not rotate, try rotating the upper supply shaft counterclockwise a little, and then try rotating the take-up shaft clockwise.
No TFR ribbon cartridge installed	Transfer ribbon cartridge is not installed. Install the transfer ribbon cartridge in the appropriate printer. For installation information, refer to the file “p55_manual_eng_**.pdf” in the folder “manual” that you can find in the P-55 Utility Software CD-ROM.

15 Error Chart

Error string (printer related)	Cause Solution
TFR end	A. Transfer ribbon ran out or no transfer ribbon is installed in the cartridge. Install a new or usable transfer ribbon in the cartridge and put the cartridge in the printer. For installation information, refer to the file “p55_manual_eng_**.pdf” in the folder “manual” that you can find in the P-55 Utility Software CD-ROM.
	B. The motor drive was overloaded due to malfunctioning of the transfer ribbon. Dropping or mishandling the transfer ribbon may cause its shaft to come loose. Open the side door on the printer and make sure that the transfer ribbon is installed properly. * If the above solution does not fix the error, the error may result from dirt on the printer platen roller. Check the platen roller. For cleaning information, refer to the chapter **16 Maintenance** on **page 55**.
TFR jam	A. Transfer ribbon is jammed. Open the side door on the printer and rotate the right-hand take-up shaft counterclockwise to clear the ribbon jam. If the take-up shaft does not rotate, try rotating the left-hand supply shaft clockwise a little, and then try rotating the take-up shaft counterclockwise.
	B. The motor drive was overloaded due to malfunctioning of the transfer ribbon. Dropping or mishandling the transfer ribbon may cause its shaft to come loose. Open the side door on the printer and make sure that the transfer ribbon is installed properly. * If the above solution does not fix the error, the error may result from dirt on the printer platen roller. Check the platen roller. For cleaning information, refer to the chapter **16 Maintenance** on **page 55**.
	C. Used area of the transfer ribbon was positioned for printing. Open the side door on the printer and rotate the right-hand take-up shaft counterclockwise to position a new area of the ribbon for printing.
Error: head unit failure	Error occurred in the thermal print head. Turn off the AP-55 and each printer, and contact your local dealer/reseller.
Error: heat roller failure	Shipping metal for securing internal parts to the unit is left in the printer or error occurred in the heat roller unit. Open the side door on the printer and check the inside for the shipping metal. For removal information, refer to the file “p55_manual_eng_**.pdf” in the folder “manual” that you can find in the P-55 Utility Software CD-ROM. If no shipping metal is found in the printer, turn off the AP-55 and each printer and contact your local dealer/reseller.
Error: tray unit failure	The tray unit malfunctioned. Turn off the AP-55 and each printer, and contact your local dealer/reseller.
No adapter installed	The disc adapter is not installed. Install the disc adapter in the printer. Be sure to set the slide switch on the front of the printer tray to the LOCK position to secure the adapter. For installation information, refer to the file “p55_manual_eng_**.pdf” in the folder “manual” that you can find in the P-55 Utility Software CD-ROM.
Too long strobe duration	Turn off the AP-55 and each printer, and contact your local dealer/reseller.
Error: head overheated	Same as above
Error: heat roller overheated	Same as above
Error: cannot adjust temp	Same as above
Error: failed to communicate	Same as above
Error: communication timeout	Same as above
Error: wrong data	Same as above
Error: offline	The AP-55 software failed to communicate with the printer. Check the printer cable connections or power switches to make sure that they are properly connected or set. Then, press the power switch on the back of the printer showing the error to turn it off. In a few seconds, press the power switch to turn it on again. After the startup process is complete, perform printing again in Disc Label Editor. (***Note1**) ***Note1** The setting for Number of copies in the Print dialog changes back to “1.” Check the number of discs that have been printed in the AP-55 system monitor window as shown in **3 / 6: Number of discs printed** of Area B on **page 45** and specify again the number of copies you need to print.
Cannot Get Printer Information	Data could not be obtained due to the printer being offline or communication error. Check the printer cable connections or power switches to make sure that they are properly connected or set and then restart the system. If the error continues to occur, contact your local dealer/reseller.
Cannot Open Printer Device	The printer driver is installed incorrectly or corrupted. Remove the printer driver and re-install it from P-55 Utility Software that comes with the P-55. For driver re-installation information, refer to the file “p55_manual_eng_**.pdf” in the folder “manual” that you can find in the P-55 Utility Software CD-ROM.

15 Error Chart

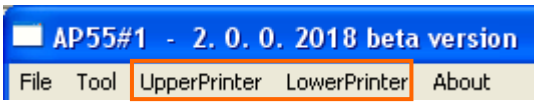
Error string (firmware-related)	Cause Solution
Firmware update - Change to Update Mode	N/A
Firmware update - ERASE ROM	N/A
Firmware update - PROGRAM ROM	N/A
Firmware update - VERIFY	N/A
Firmware update - Change to Normal Mode	N/A
Timeout Error occurred in Firmware Update	Communication between the AP-55 software and the printer was cut off. Check the printer cable connections or power switches to make sure that they are all properly connected or set. If no problem is found, update the firmware again. If the error continues to display, contact your local dealer/reseller.
Error occurred in Firmware Update	Error occurred while the AP-55 software was communicating with the printer. Check the printer cable connections or power switches to make sure that they are all properly connected or set. If no problem is found, update the firmware again. If the error continues to display, contact your local dealer/reseller.

Error string (auto-loader-related)	Cause Solution
Timeout occurred in the loader.	The auto-loader unit timed out. Restart the system. If the error continues to occur, contact your local dealer/reseller.
Stacker full	Stacker in “PMS 0” or “PMS 1” has become full. Remove discs from the stacker in the appropriate stacker tray.
Stacker empty	Stacker in “BMS 0” or “BMS 1” has become empty. Install discs in the stacker in the appropriate stacker tray.
Disc not recognized. Check printer.	The positions of the printer tray and auto-loader unit may not be adjusted properly or a disc that has an irregular shape may not be recognizable. Turn off the entire AP-55 system and remove the disc from the printer tray. If the error continues to display, contact your local dealer/reseller.
Disc catch failure. Disc may remain in printer.	The positions of the printer tray and auto-loader unit may not be adjusted properly or the disc, if it has an irregular shape, may not be recognizable. Turn off the entire AP-55 system and remove the disc from the printer tray. If the error continues to display, contact your local dealer/reseller.
Disc catch failure	The positions of the stacker tray “BMS 0” or “BMS 1” and the auto-loader unit may not be properly adjusted or a disc that has an irregular shape may not be recognizable. If the error continues to display, contact your local dealer/reseller.
Loader is not in normal mode.	Perform the auto-loader firmware update or maintenance work.
Loader command error - parameter error	Error occurred in the auto-loader control sequence. The ROM may be damaged. Contact your local dealer/reseller.
Loader command error - no stacker	Error occurred in the auto-loader control sequence. The ROM may be damaged. Contact your local dealer/reseller.
Loader command error - disk dropped	The disc dropped from the loader. Turn off the entire AP-55 system and remove the disc.
Loader command error - disc catch command (loader already has a disc.)	Error occurred in the auto-loader control sequence. The ROM may be damaged. Contact your local dealer/reseller.
Loader command error - disc release command (loader does not have a disc.)	Error occurred in the auto-loader control sequence. The ROM may be damaged. Contact your local dealer/reseller. Or the disc that was being conveyed may be dropped. Check and remove the disc if any.
Internal timeout	Timeout occurred while the AP-55 software was performing processing for the printer. Restart the system. If the error continues to display, contact your local dealer/reseller.
Print stopped after stop signal received.	User made a request for cancellation of a print job or error occurred in either of the printers. As a result of a critical error for either one of the printers caused by the auto-loader unit while the printer was printing, printing being processed by the other printer is also stopped.
Missing start message from printer driver.	The AP-55 software was terminated during a print operation and was restarted immediately. To continue the print operation, execute the label print software again.
Maintenance/firmware update/ manual operation mode	Print request was canceled because it was made during cleaning, firmware updating, or manual operation. Execute the label print software again after the mode being run was completed.
Printer offline	The AP-55 software failed to communicate with the printer. Check the printer cable connections or power switches to make sure that they are properly connected or set.

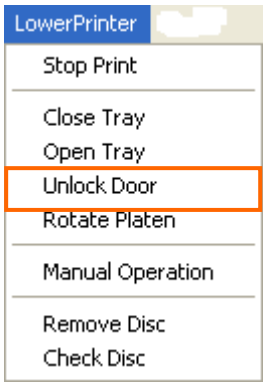
16 Maintenance

16-1 Cleaning platen roller in upper/lower printer

1. Select **UpperPrinter** or **LowerPrinter** from the AP-55 system monitor window as shown below.

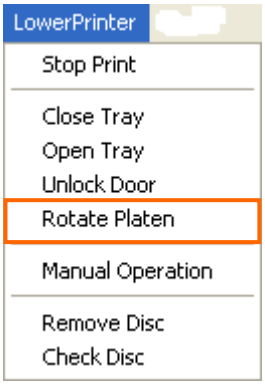


2. From the menu for the printer you have chosen, select **Unlock Door** as shown below.



- The side door remains unlocked for approx. 15 seconds. Open the side door for the meantime.
- The side door is automatically locked in approx. 15 seconds. In that case, start all over again.

3. Press the side door unlock button on the top side of the printer chosen and open the side door.
4. Flip up the lock lever that secures the ribbon cartridges in place to unlock the cartridges.
5. Pull both the ink and transfer ribbon cartridges to remove them from the printer.
6. With no cartridges in the printer, flip down the lock lever to set the lever in lock position.
7. Select **Rotate Platen** from the menu for the printer you have chosen as shown below.



8. The platen roller starts rotating while the message “Rotate Platen“ is displayed in the AP-55 system monitor window.

9. Put a few drops of our cleaning agent onto a cleaning plate that comes with the agent, and insert the plate while the long edge of the plate is brought into contact with the tray cover. Slide the plate in and out slowly several times to wipe dirt off.
   *For detailed cleaning information, see the chapter “Maintenance” in the P-55 instruction manual.
10. To quit cleaning the platen roller, click **OK** in the “Rotate PLATEN” window as shown below.
    The platen roller stops rotating and the “Rotate PLATEN” window disappears.

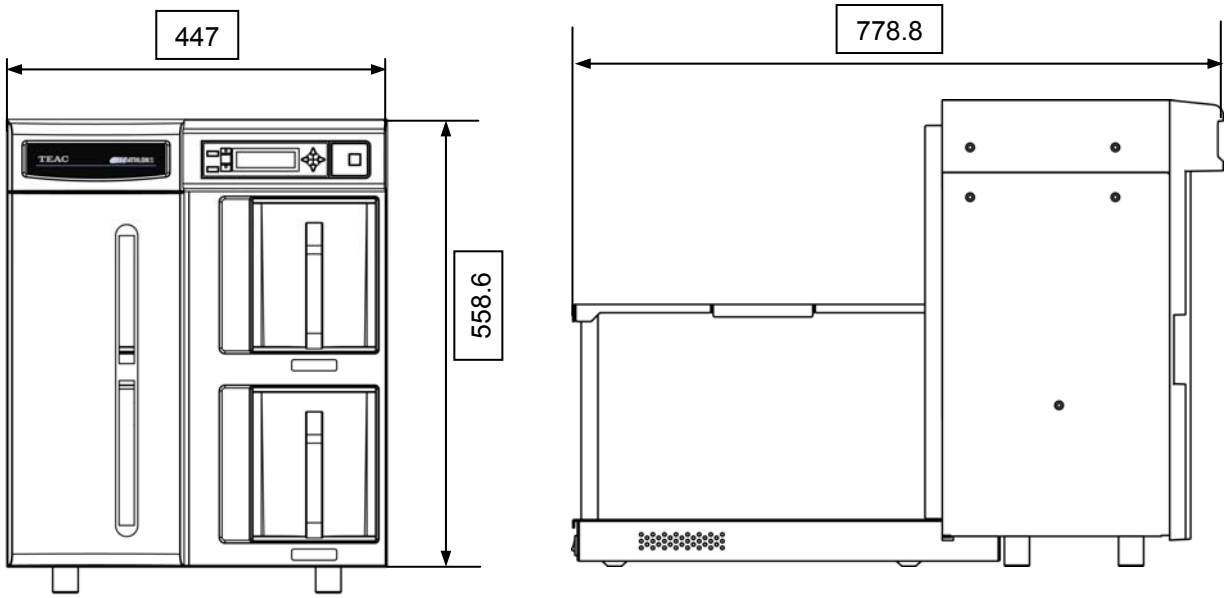
The cleaning is complete.

17 Specifications

17-1 General specification

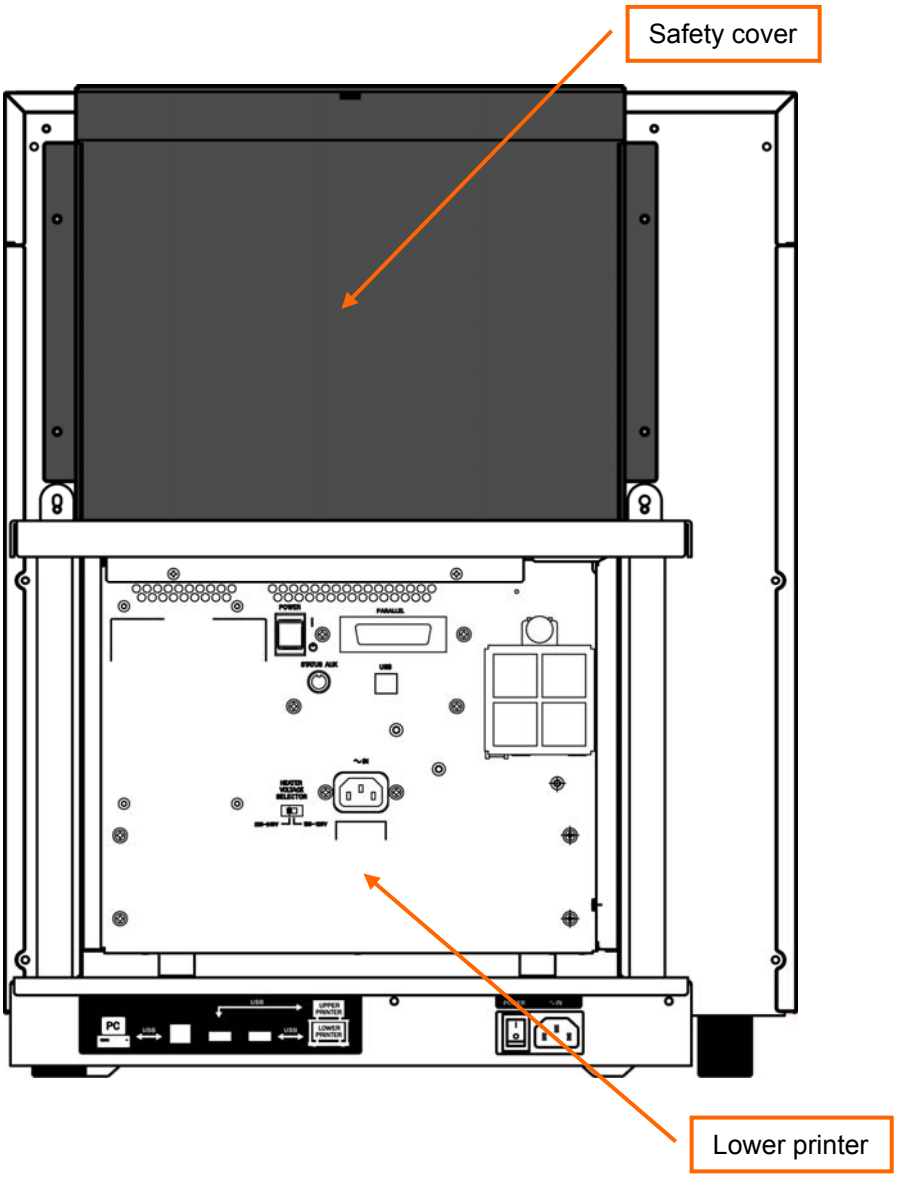
Power Supply Voltage	100VAC to 120VAC/220VAC to 240VAC, 50/60Hz	
Power Consumption	Operating	Approx. 20W (Max.)
External Dimensions	Approx. 447W x 778.8D x 558.6H mm (including height of rubber feet)	
Weight	Approx. 33kg (not including weight of printers)	
Operating Environment	Temperature	15°C to 30°C
	Humidity	30% to 70% (No condensation)

17-2 Dimensional drawing



18 Appendix

You can install two label printers in the AP-55.
To use the AP-55 installing just one label printer, you must install a label printer in the lower portion of the AP-55 system for your own safety.
For use with a single label printer, make sure that the safety cover installed in the AP-55 at the factory is installed in the upper portion of the AP-55 system in which another printer is supposed to install, as shown below.



■ **Product Information**

TEAC America, Inc.
7733 Telegraph Rd. Montebello, CA. 90640.USA
URL: http://www.teac.com/DSPD/
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■ **Technical Support**

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*** Locations and telephone numbers are subject to change without prior notice.**

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